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Map

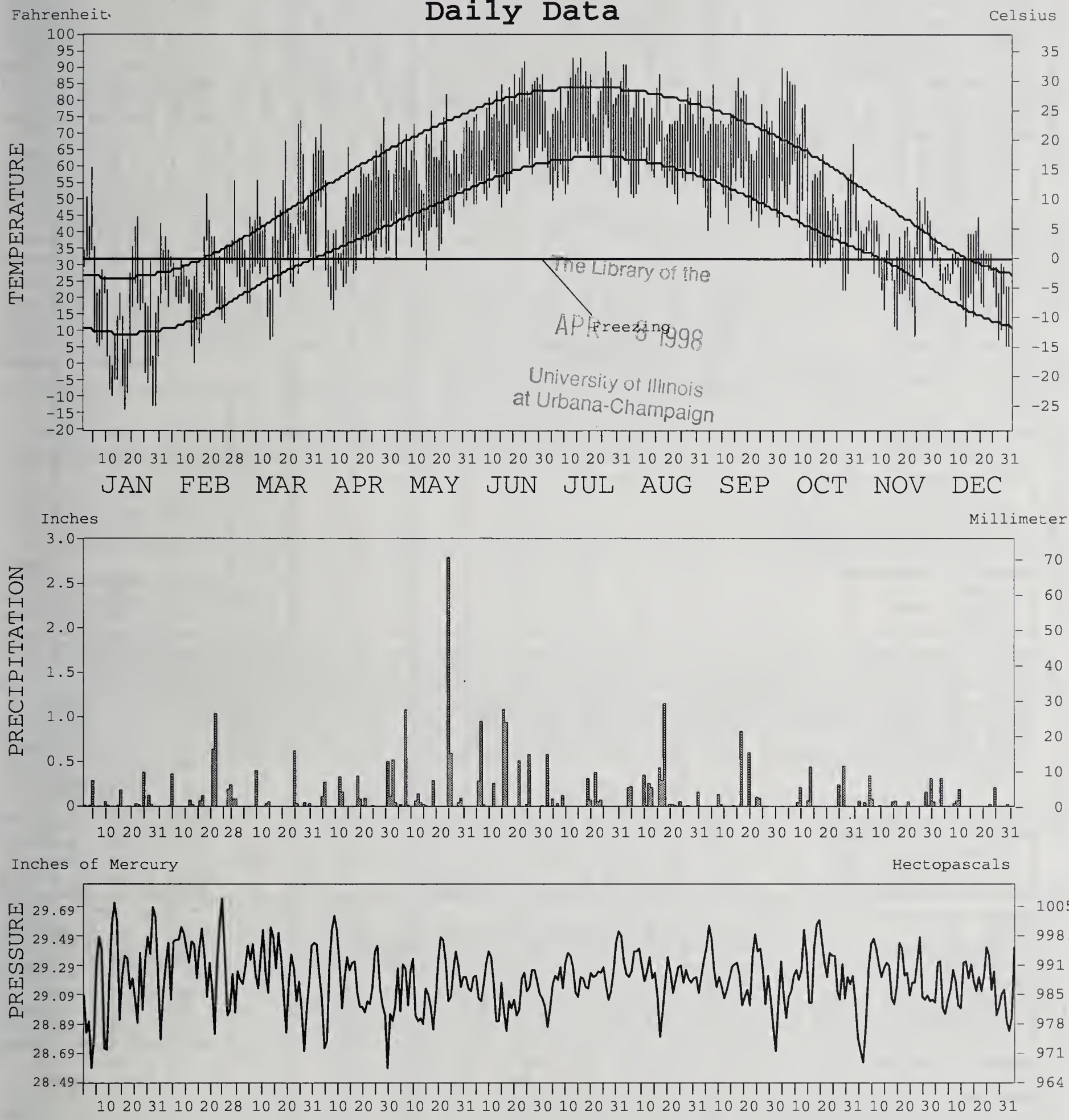
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

1997

ISSN 0198-1919

ROCKFORD,
ILLINOIS (RFD)

Daily Data



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Kenneth D. Hinkson

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	ACTING DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1997

ROCKFORD, IL (RFD)

LATITUDE: 42° 11′ 46″ N LONGITUDE: 89° 05′ 33″ W ELEVATION (FT): GRND: 724 BARO: 732 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 94822

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	25.4	32.6	46.4	55.2	64.2	79.5	82.9	78.3	74.5	63.2	40.8	33.1	56.3
	HIGHEST DAILY MAXIMUM	60	52	74	75	82	92	95	91	87	90	55	45	95
	DATE OF OCCURRENCE	4	18	27	29	24	24	26	3 +	16	03	01	19	JUL 26
	MEAN DAILY MINIMUM	7.7	20.4	28.0	33.1	42.7	58.7	61.5	58.7	51.7	40.9	27.9	22.3	37.8
	LOWEST DAILY MINIMUM	-13	1	8	17	29	48	50	49	41	23	9	6	-13
	DATE OF OCCURRENCE	17	13	15	9	16	15	05	23	04	28+	24	31+	JAN 17
	AVERAGE DRY BULB	16.6	26.5	37.2	44.2	53.5	69.1	72.2	68.5	63.1	52.1	34.4	27.7	47.1
	MEAN WET BULB	15.4		33.4	39.0	47.3	62.3	65.5	63.2	57.7	46.8	32.4	26.8	
	MEAN DEW POINT	10.8		27.5	31.0	39.8	57.4	61.4	59.8	53.3	41.6	28.7	23.8	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	2	4	2	0	1	0	0	9
	MAXIMUM ≤ 32°	22	14	3	1	0	0	0	0	0	0	3	13	56
	MINIMUM ≤ 32°	29	27	23	16	2	0	0	0	0	11	20	30	158
	MINIMUM ≤ 0°	12	0	0	0	0	0	0	0	0	0	0	0	12
H/C	HEATING DEGREE DAYS	1494	1071	857	617	350	22	5	13	98	437	913	1147	7024
	COOLING DEGREE DAYS	0	0	0	0	2	155	236	130	46	42	0	0	611
RH	MEAN (PERCENT)	78	80	70	63	62	68	71	77	74	70	80	84	73
	HOUR 00 LST	80	85	77	72	72	81	81	90	86	80	85	87	81
	HOUR 06 LST	82	85	84	79	76	83	86	90	90	85	88	86	84
	HOUR 12 LST	73	74	62	49	50	54	57	62	57	54	71	78	62
	HOUR 18 LST	76	77	62	52	51	54	59	66	63	63	77	84	65
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	5	1	1	2	2	0	0	2	1	0	1	2	17
	THUNDERSTORMS	0	0	1	2	3	9	7	6	2	0	0	0	30
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.21	29.34	29.25	29.19	29.16	29.13	29.23	29.24	29.22	29.25	29.19	29.17	29.22
	MEAN SEA-LEVEL PRESS. (IN.)	30.04		30.06	30.00	29.95	29.92	30.01	30.02	30.01	30.05	30.01	29.99	
WINDS	RESULTANT SPEED (MPH)	5.2	3.0	2.4	0.5	3.3	2.4	0.4	0.2	0.6	3.2	2.2	2.1	1.5
	RES. DIR. (TENS OF DEGS.)	27	30	30	26	32	20	23	02	28	19	32	31	28
	MEAN SPEED (MPH)	10.2	9.3	11.4	10.1	11.2	7.7	7.9	7.1	7.4	9.4	8.7	8.6	9.1
	PREVAIL.DIR.(TENS OF DEGS.)	29	29	30	15	31	05	06	17	18	17	02	29	29
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	31	32	32	47	44	32	37	28	37	33	30	26	47
	DIR. (TENS OF DEGS.)	31	01	29	23	16	20	32	17	29	03	02	02	23
	DATE OF OCCURRENCE	16	21	21	06	07	24	18	15	29	26+	30	10	APR 06
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	40	39	39	64	54	40	45	33	45	44	37	31	64
	DIR. (TENS OF DEGS.)	26	01	29	26	16	20	33	34	28	02	01	05	26
	DATE OF OCCURRENCE	05	21	21	06	07	24	18	04	29	26	30	24+	APR 06
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	1.13	2.83	1.28	1.90	5.85	4.66	1.69	3.40	1.79	1.44	1.22	0.84	28.03
	GREATEST 24-HOUR (IN.)	0.38	1.67	0.65	0.50	3.38	2.03	0.58	1.43	0.84	0.50	0.42	0.31	3.38
	DATE OF OCCURRENCE	24-25	20-21	24-25	30	24-25	15-16	02	16-17	16-17	12-13	05-06	03	MAY 24-25
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	12	11	8	10	16	10	9	15	7	6	12	7	123
	PRECIPITATION ≥ 0.10	4	6	2	6	7	7	4	9	4	4	3	3	59
	PRECIPITATION ≥ 1.00	0	1	0	0	2	1	0	1	0	0	0	0	5
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

NORMALS, MEANS, AND EXTREMES

ROCKFORD, IL (RFD)

LATITUDE: 42° 11′ 46″ N LONGITUDE: 89° 05′ 33″ W ELEVATION (FT): GRND: 724 BARO: 732 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 94822

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	26.6	31.6	43.8	58.4	70.8	80.2	83.8	81.4	74.1	62.3	46.3	31.8	57.6
	MEAN DAILY MAXIMUM	44	52.9	58.7	66.5	75.4	83.6	92.5	93.4	91.3	84.7	75.6	62.6	54.4	74.3
	HIGHEST DAILY MAXIMUM	47	63	68	85	91	95	101	103	104	102	90	76	66	104
	YEAR OF OCCURRENCE		1989	1976	1986	1980	1975	1988	1955	1988	1953	1997	1961	1984	AUG 1988
	MEAN OF EXTREME MAXS.	44	72.8	76.9	82.8	90.1	96.5	102.9	102.0	99.7	96.2	89.8	79.4	72.5	88.5
	NORMAL DAILY MINIMUM	30	9.8	14.2	26.1	36.9	47.4	57.4	62.5	60.3	52.0	40.6	29.5	16.1	37.7
	MEAN DAILY MINIMUM	44	25.5	30.2	36.8	45.2	54.8	64.1	67.9	66.5	59.0	47.1	34.4	27.0	46.5
	LOWEST DAILY MINIMUM	47	-27	-24	-11	5	24	37	43	41	27	15	-10	-24	-27
	YEAR OF OCCURRENCE		1982	1996	1962	1982	1966	1993	1967	1986	1984	1952	1977	1983	JAN 1982
	MEAN OF EXTREME MINS.	44	8.1	13.4	21.8	30.8	42.1	54.0	61.8	59.9	48.0	34.1	19.4	11.9	33.8
	NORMAL DRY BULB	30	18.2	22.9	35.0	47.7	59.1	68.8	73.2	70.9	63.1	51.5	38.0	24.0	47.7
	MEAN DRY BULB	44	39.2	44.5	51.8	60.3	69.3	78.4	80.6	78.9	71.9	61.3	48.5	40.7	60.5
	MEAN WET BULB	14	31.8	37.1	40.8	46.4	54.4	62.1	64.8	65.4	59.3	49.9	38.5	32.3	48.6
	MEAN DEW POINT	14	21.7	24.7	26.3	30.3	41.2	51.7	56.1	58.5	51.5	40.0	27.6	22.8	37.7
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.6	3.0	5.9	3.5	1.1	0.1	0.0	0.0	14.3
	MAXIMUM ≤ 32°	30	19.5	14.4	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.5	15.1	56.3
	MINIMUM ≤ 32°	30	29.6	26.2	23.2	9.3	1.3	0.0	0.0	0.0	0.4	6.8	19.3	28.0	144.1
	MINIMUM ≤ 0°	30	9.6	5.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.4	19.7
H/C	NORMAL HEATING DEG. DAYS	30	1451	1179	930	519	239	24	5	15	99	427	810	1271	6969
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	56	138	259	198	42	9	0	0	702
RH	NORMAL (PERCENT)	30	75	74	71	66	65	66	70	74	74	71	75	78	72
	HOUR 00 LST	30	78	78	78	74	75	77	83	86	85	81	81	81	80
	HOUR 06 LST	30	79	81	82	80	80	81	86	90	90	86	83	82	83
	HOUR 12 LST	30	70	66	62	55	53	54	56	58	58	57	66	72	61
	HOUR 18 LST	30	74	70	65	55	54	54	58	62	64	64	73	77	64
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	47	2.7	2.4	2.6	1.2	1.0	0.6	1.2	1.8	1.7	1.9	2.2	3.1	22.4
	THUNDERSTORMS	47	0.1	0.4	2.0	4.2	5.4	7.6	7.9	6.3	4.6	2.4	1.1	0.3	42.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR	1		1.0	1.0		1.0								
	PARTLY CLOUDY	1			1.0		1.0								
	CLOUDY	1			2.0										
PR	MEAN STATION PRESSURE(IN)	25	29.28	29.29	29.20	29.17	29.17	29.17	29.21	29.25	29.26	29.26	29.24	29.28	29.23
	MEAN SEA-LEVEL PRES. (IN)	14	30.08	30.00	29.91	29.84	29.79	29.81	29.88	29.92	29.94	29.97	30.02	30.06	29.93
WINDS	MEAN SPEED (MPH)	30	10.6	10.5	11.7	11.7	10.2	9.1	8.0	7.7	8.4	9.4	10.3	10.2	9.8
	PREVAIL.DIR(TENS OF DEGS)	23	30	30	30	18	18	18	18	18	18	18	18	30	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	2	36	33	41	47	44	32	37	32	37	40	31	28	47
	DIR. (TENS OF DEGS)		16	29	23	23	16	20	32	32	29	21	15	31	23
	YEAR OF OCCURRENCE		1996	1996	1996	1997	1997	1997	1997	1996	1997	1996	1996	1996	APR 1997
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	2	44	44	52	64	54	40	45	41	45	52	40	36	64
	DIR. (TENS OF DEGS)		17	28	22	26	16	20	33	31	28	23	14	17	26
	YEAR OF OCCURRENCE		1996	1996	1996	1997	1997	1997	1997	1996	1997	1996	1996	1996	APR 1997
PRECIPITATION	NORMAL (IN)	30	1.28	1.14	2.46	3.65	3.66	4.52	4.12	4.15	3.80	2.88	2.57	2.05	36.28
	MAXIMUM MONTHLY (IN)	47	4.66	3.04	5.62	9.92	11.75	11.85	11.81	13.55	10.68	8.32	5.51	5.04	13.55
	YEAR OF OCCURRENCE		1960	1994	1961	1973	1996	1993	1952	1987	1961	1969	1985	1971	AUG 1987
	MINIMUM MONTHLY (IN)	47	0.18	0.04	0.50	0.99	0.48	0.46	0.79	0.67	0.05	0.01	0.38	0.37	0.01
	YEAR OF OCCURRENCE		1961	1969	1996	1989	1992	1988	1991	1970	1979	1952	1976	1976	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	47	2.89	1.73	2.50	5.55	4.77	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
	YEAR OF OCCURRENCE		1960	1966	1976	1973	1996	1969	1952	1987	1961	1954	1961	1971	AUG 1987
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	9.4	7.9	10.9	11.8	11.3	9.9	9.6	9.3	9.3	9.0	9.7	10.4	118.5
	PRECIPITATION ≥ 1.00	30	0.2	0.1	0.4	0.8	1.0	1.3	1.2	0.9	1.0	0.8	0.5	0.3	8.5
SNOWFALL	NORMAL (IN)	30	8.3	7.5	6.5	1.7	0.*	0.0	0.0	0.0	0.0	0.1	2.4	9.8	36.3
	MAXIMUM MONTHLY (IN)	46	26.1	30.2	22.7	7.7	1.0	T	T	T	0.0	2.2	14.7	25.1	30.2
	YEAR OF OCCURRENCE		1979	1994	1964	1982	1966	1996	1994	1990		1967	1951	1978	FEB 1994
	MAXIMUM IN 24 HOURS (IN)	46	9.9	10.9	10.4	6.7	0.2	T	T	T	0.0	2.2	9.5	11.4	11.4
	YEAR OF OCCURRENCE		1979	1960	1972	1970	1990	1996	1994	1990		1967	1951	1987	DEC 1987
	MAXIMUM SNOW DEPTH (IN)	42	6	13	2	2	0	0	0	0	0	2	8	11	13
	YEAR OF OCCURRENCE		1982	1956	1989	1983						1993	1961	1960	FEB 1956
	NORMAL NO. DAYS WITH:														
	SNOWFALL ≥ 1.0	30	2.6	2.5	2.0	0.5	0.*	0.0	0.0	0.0	0.0	0.*	0.7	2.9	11.2

PRECIPITATION (inches) 1997 ROCKFORD, IL (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
1992	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
1993	2.45	0.87	3.86	6.11	3.05	11.85	3.72	3.07	3.72	0.74	1.77	1.23	42.44
1994	1.00	3.04	1.15	2.66	1.41	6.04	2.84	6.28	4.06	1.11	4.42	1.26	35.27
1995	1.76	0.15	1.49	4.56	6.30	3.89	2.61	3.13	2.01	3.67	3.23	0.49	33.29
1996	1.40	0.49	0.50	2.90	11.75	4.95	9.72	2.70	1.62	3.56	0.96	2.14	42.69
1997	1.13	2.83	1.28	1.90	5.85	4.66	1.69	3.40	1.79	1.44	1.22	0.84	28.03
POR= 92 YRS	1.62	1.37	2.48	3.37	3.80	4.41	3.75	3.79	3.76	2.70	2.37	1.69	35.11

WBAN : 94822

AVERAGE TEMPERATURE (°F) 1997 ROCKFORD, IL (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.3
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.1
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.2
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
1992	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
1993	23.5	22.5	33.2	45.5	60.8	67.3	73.7	72.8	58.4	48.9	36.8	27.5	47.6
1994	12.6	17.2	36.4	50.7	59.8	71.6	71.1	67.8	64.6	52.9	41.2	30.3	48.0
1995	20.1	24.2	38.1	44.8	57.9	72.2	74.7	77.1	60.4	51.4	30.0	23.3	47.9
1996	18.5	23.0	29.8	45.2	55.5	68.8	69.1	71.2	62.4	50.9	30.3	24.2	45.7
1997	16.6	26.5	37.2	44.2	53.5	69.1	72.2	68.5	63.1	52.1	34.4	27.7	47.1
POR= 91 YRS	20.5	24.4	35.3	48.2	59.4	69.1	73.7	71.8	63.8	52.2	38.1	25.3	48.5

HEATING DEGREE DAYS (base 65°F) 1997 ROCKFORD, IL (RFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134	1181	945	843	567	220	38	6462
1992-93	12	55	165	476	849	1207	1282	1183	977	581	167	71	7025
1993-94	0	4	212	498	836	1156	1622	1334	880	445	200	22	7209
1994-95	4	34	93	376	706	1070	1388	1139	827	600	220	16	6473
1995-96	6	0	181	418	1043	1285	1432	1213	1081	589	326	38	7612
1996-97	6	0	134	431	1032	1259	1494	1071	857	617	350	22	7273
1997-	5	13	98	437	913	1147							

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COOLING DEGREE DAYS (base 65°F) 1997 ROCKFORD, IL (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134
1992	0	0	0	0	51	119	148	79	62	3	0	0	462
1993	0	0	0	0	42	148	280	253	18	5	0	0	746
1994	0	0	0	23	45	224	200	127	86	5	0	0	710
1995	0	0	0	0	4	240	313	382	51	4	0	0	994
1996	0	0	0	0	37	158	141	196	65	0	0	0	597
1997	0	0	0	0	2	155	236	130	46	42	0	0	611

SNOWFALL (inches) 1997 ROCKFORD, IL (RFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0	6.0	1.0	9.7	0.2	0.0	0.0	30.6
1992-93	T	0.0	0.0	0.4	1.7	11.1	13.1	9.9	13.1	1.8	0.0	0.0	51.1
1993-94	0.0	0.0	0.0	T	0.7	4.9	14.8	30.2	0.4	0.5	0.0	0.0	51.5
1994-95	T	0.0	0.0	0.0	T	12.0	17.4	0.5	2.5	T	0.0	0.0	32.4
1995-96	0.0	0.0	0.0		8.2	6.3	6.8	2.4	2.9	T	0.0	T	
1996-97	0.0	0.0	0.0										
1997-													
POR= 45 YRS	T	T	0.0	0.1	2.7	9.3	8.7	6.9	6.2	1.3	0.0	T	35.2

WBAN : 94822

REFERENCE NOTES:

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).

GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.
THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.

GENERAL CONTINUED:
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

1997
ROCKFORD,
ILLINOIS (RFD)

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	RAIN GAGE TIPPING BUCKET	RAIN GAGE WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/??/72	10/??/93		42° 17'	89° 05'	720							3			Observer, T.D. Robertson.
731 North Court Street	11/??/93	12/??/12	.25 mi.WSW	42° 17'	89° 05'	720							3			Observer, H.C. Porter.
1135 North Court Street	01/??/13	06/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	06/01/18	07/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	07/30/20	09/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and daughter.
2221 North Winnebago	09/24/53	06/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42° 12'	89° 06'	725	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP	11/05/58	Present	35 ft. E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.
															S	ASOS Commissioned 07/01/95

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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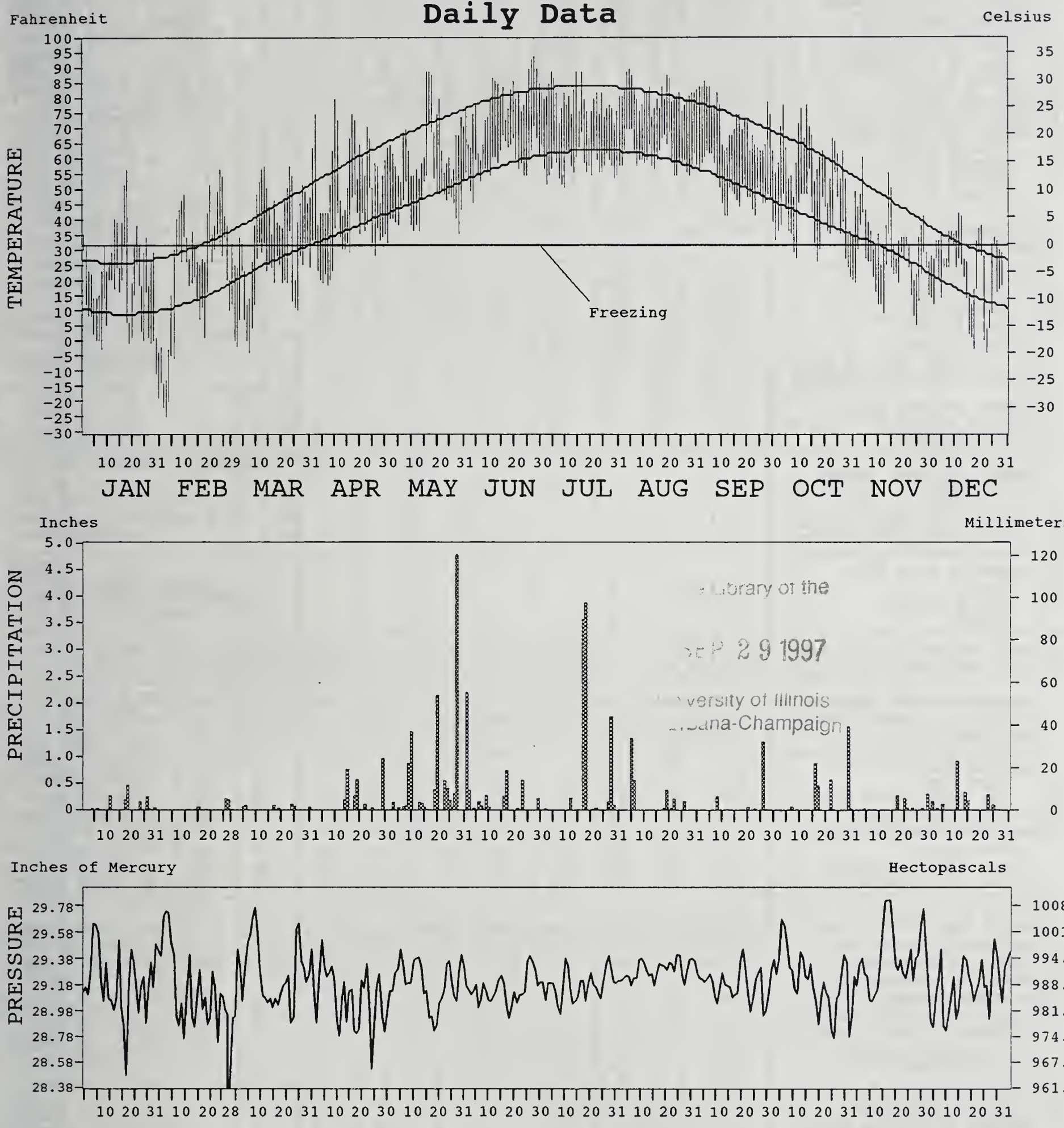
MAP

1996 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-190

ROCKFORD,
ILLINOIS (RFD)

Daily Data



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Kenneth D. Hinson

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	ACTING DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1996

ROCKFORD, IL (RFD)

LATITUDE: 42° 11′ 46″ N | LONGITUDE: 89° 05′ 33″ W | ELEVATION (FT): GRND: 724 BARO: 732 | TIME ZONE: CENTRAL (UTC+ 6) | WBAN: 94822

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	27.2	30.9	40.3	56.9	64.8	78.4	79.6	81.3	73.2	61.7	37.3	29.9	55.1
	HIGHEST DAILY MAXIMUM	57	57	58	80	89	94	89	90	86	78	61	43	94
	DATE OF OCCURRENCE	18	24	24	11	18	29	18+	6	5	15+	6	14	JUN 29
	MEAN DAILY MINIMUM	9.9	15.2	19.3	33.4	46.1	59.1	58.5	61.0	51.6	40.1	23.3	18.4	36.3
	LOWEST DAILY MINIMUM	-18	-24	-3	19	33	46	51	55	42	25	6	-3	-24.
	DATE OF OCCURRENCE	31	3	8	8	2	5	11	30+	25+	31	27	25	FEB 3
	AVERAGE DRY BULB	18.5	23.0	29.8	45.2	55.5	68.8	69.1	71.2	62.4	50.9	30.3	24.2	45.7
	MEAN WET BULB	18.4	22.1	26.4	39.5	51.0	64.1	63.0	66.2	57.1	46.4	28.2	23.2	42.1
	MEAN DEW POINT	14.2	17.4	18.5	32.3	47.0	61.0	58.8	63.4	53.5	41.6	23.0	20.3	37.6
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	4	0	1	0	0	0	0	5
	MAXIMUM ≤ 32°	23	14	7	0	0	0	0	0	0	0	10	16	70
	MINIMUM ≤ 32°	31	26	26	12	0	0	0	0	0	6	27	30	158
	MINIMUM ≤ 0°	5	6	2	0	0	0	0	0	0	0	0	2	15
H/C	HEATING DEGREE DAYS	1432	1213	1081	589	326	38	6	0	134	431	1032	1259	7541
	COOLING DEGREE DAYS	0	0	0	0	37	158	141	196	65	0	0	0	597
RH	MEAN (PERCENT)	81	77	66	65	76	79	72	79	76	73	74	84	75
	HOUR 00 LST	83	81	72	74	82	90	87	93	89	83	79	85	83
	HOUR 06 LST	85	85	80	82	87	91	86	94	93	87	80	88	86
	HOUR 12 LST	76	72	53	53	68	68	61	62	59	58	66	80	65
	HOUR 18 LST	81	75	57	50	68	69	60	68	67	65	71	84	68
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	5	2	3	0	2	1	1	1	2	0	0	7	24
	THUNDERSTORMS	0	2	1	4	9	6	7	6	3	5	0	1	44
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)				3	4	3							
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)				3	4	3							
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR		1	1		1								
	PARTLY CLOUDY			1		1								
	CLOUDY			2										
PR	MEAN STATION PRESS. (IN.)	29.21	29.16	29.26	29.09	29.19	29.15	29.18	29.30	29.19	29.21	29.37	29.18	29.21
	MEAN SEA-LEVEL PRESS. (IN.)	30.04	29.99	30.08	29.89	29.99	29.94	29.97	30.09	29.98	30.01	30.20	30.01	30.02
WINDS	RESULTANT SPEED (MPH)	1.3	3.4	2.2	1.6	3.2	1.0	1.5	0.7	1.6	1.6	0.7	1.3	0.7
	RES. DIR. (TENS OF DEGS.)	30	27	34	32	08	25	28	12	30	30	05	10	32
	MEAN SPEED (MPH)	11.1	10.7	12.0	11.6	9.6	7.8	7.2	6.3	6.9	9.8	9.8	9.8	9.4
	PREVAIL.DIR.(TENS OF DEGS.)	01	28	36	01	08	21	17	17	32	17	31	29	17
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	36	33	41	36	34	26	25	32	24	40	31	28	41
	DIR. (TENS OF DEGS.)	16	29	23	26	15	31	35	32	29	21	15	31	23
	DATE OF OCCURRENCE	18	10	25	18	9	29+	28	05	22	29	16	24+	MAR 25
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	44	44	52	47	40	38	33	41	29	52	40	36	52
	DIR. (TENS OF DEGS.)	17	28	22	26	19	23	35	31	30	23	14	17	23
	DATE OF OCCURRENCE	18	10	25	18	28+	2	28	05	22	29	16	15	OCT 29
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	1.40	0.49	0.50	2.90	11.75	4.95	9.72	2.70	1.62	3.56	0.96	2.14	42.69
	GREATEST 24-HOUR (IN.)	0.50	0.40	0.17	0.96	4.77	2.21	3.87	1.90	1.29	1.58	0.32	0.92	4.77
	DATE OF OCCURRENCE	17-18	26-27	24-25	29	28	1- 2	18	5-6	26-27	29-30	29-30	11	MAY 28
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	9	7	7	8	18	13	10	7	6	8	10	10	113
	PRECIPITATION ≥ 0.10	5	2	1	6	12	8	5	5	2	4	3	7	60
	PRECIPITATION ≥ 1.00	0	0	0	0	3	1	3	1	1	1	0	0	10
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	6.8	2.4	2.9	T	0.0	T	0.0	0.0	0.0				
	GREATEST 24-HOUR (IN.)	2.8	1.8	1.8	T	0.0	T	0.0	0.0	0.0				
	DATE OF OCCURRENCE	11	14-15	6	29+		2							
	MAXIMUM SNOW DEPTH (IN.)	3	2	2	0	0	0	0	0	0		5		
	DATE OF OCCURRENCE	31+	15+	06								21		
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	2	1	1	0	0	0	0	0	0				

NORMALS, MEANS, AND EXTREMES FOR 1996

ROCKFORD, IL (RFD)

LATITUDE: 42° 11′ 46″ N LONGITUDE: 89° 05′ 33″ W ELEVATION (FT): GRND: 724 BARO: 732 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 94822

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE F	NORMAL DAILY MAXIMUM	30	26.6	31.6	43.8	58.4	70.8	80.2	83.8	81.4	74.1	62.3	46.3	31.8	57.6
	MEAN DAILY MAXIMUM	43	53.5	59.3	67.0	75.9	84.1	92.8	93.6	91.6	84.9	75.9	63.1	54.9	74.7
	HIGHEST DAILY MAXIMUM	46	63	68	85	91	95	101	103	104	102	90	76	66	104
	YEAR OF OCCURRENCE		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
	MEAN OF EXTREME MAXS.	43	73.1	77.5	83.0	90.5	96.8	103.2	102.2	99.9	96.4	89.8	80.0	73.2	88.8
	NORMAL DAILY MINIMUM	30	9.8	14.2	26.1	36.9	47.4	57.4	62.5	60.3	52.0	40.6	29.5	16.1	37.7
	MEAN DAILY MINIMUM	43	25.9	30.4	37.0	45.5	55.1	64.2	68.1	66.7	59.2	47.2	34.6	27.1	46.7
	LOWEST DAILY MINIMUM	46	-27	-24	-11	5	24	37	43	41	27	15	-10	-24	-27
	YEAR OF OCCURRENCE		1982	1996	1962	1982	1966	1993	1967	1986	1984	1952	1977	1983	JAN 1982
	MEAN OF EXTREME MINS.	43	8.6	13.7	22.1	31.1	42.4	54.1	62.1	60.2	48.2	34.4	19.6	12.0	34.0
	NORMAL DRY BULB	30	18.2	22.9	35.0	47.7	59.1	68.8	73.2	70.9	63.1	51.5	38.0	24.0	47.7
	MEAN DRY BULB	43	39.7	44.9	52.1	60.7	69.7	78.6	80.8	79.1	72.1	61.5	48.8	41.0	60.8
	MEAN WET BULB	13	33.1	37.1	41.4	47.0	54.9	62.1	64.8	65.6	59.4	50.1	39.0	32.7	48.9
	MEAN DEW POINT	13	22.5	24.7	26.2	30.2	41.3	51.3	55.7	58.4	51.4	39.9	27.5	22.7	37.7
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.6	3.0	5.9	3.5	1.1	0.1	0.0	0.0	14.3
	MAXIMUM ≤ 32°	30	19.5	14.4	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.5	15.1	56.3
	MINIMUM ≤ 32°	30	29.6	26.2	23.2	9.3	1.3	0.0	0.0	0.0	0.4	6.8	19.3	28.0	144.1
	MINIMUM ≤ 0°	30	9.6	5.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.4	19.7
H/C	NORMAL HEATING DEG. DAYS	30	1451	1179	930	519	239	24	5	15	99	427	810	1271	6969
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	56	138	259	198	42	9	0	0	702
RH	NORMAL (PERCENT)	30	75	74	71	66	65	66	70	74	74	71	75	78	72
	HOUR 00 LST	30	78	78	78	74	75	77	83	86	85	81	81	81	80
	HOUR 06 LST	30	79	81	82	80	80	81	86	90	90	86	83	82	83
	HOUR 12 LST	30	70	66	62	55	53	54	56	58	58	57	66	72	61
	HOUR 18 LST	30	74	70	65	55	54	54	58	62	64	64	73	77	64
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	46	2.6	2.4	2.6	1.2	1.0	0.6	1.2	1.8	1.7	1.9	2.2	3.1	22.3
	THUNDERSTORMS	46	0.1	0.4	2.0	4.2	5.5	7.6	7.9	6.3	4.7	2.5	1.1	0.3	42.6
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR			1.0	1.0		1.0								
	PARTLY CLOUDY				1.0		1.0								
	CLOUDY				2.0										
PR	MEAN STATION PRESSURE(IN)	24	29.28	29.29	29.20	29.17	29.17	29.17	29.21	29.25	29.26	29.26	29.24	29.28	29.23
	MEAN SEA-LEVEL PRES. (IN)	13	30.08	30.00	29.90	29.83	29.78	29.80	29.87	29.91	29.93	29.96	30.02	30.07	29.93
WINDS	MEAN SPEED (MPH)	29	10.6	10.5	11.7	11.8	10.2	9.1	8.0	7.7	8.4	9.4	10.4	10.3	9.8
	PREVAIL.DIR(TENS OF DEGS)	22	30	30	30	30	30	30	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	36	33	41	36	34	26	25	32	24	40	31	28	41
	DIR. (TENS OF DEGS)		16	29	23	26	15	31	35	32	29	21	15	31	23
	YEAR OF OCCURRENCE		1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	MAR 1996
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	1	44	44	52	47	40	38	33	41	29	52	40	36	52
	DIR. (TENS OF DEGS)		17	28	22	26	19	23	35	31	30	23	14	17	23
	YEAR OF OCCURRENCE		1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	OCT 1996
PRECIPITATION	NORMAL TOTAL (IN)	30	1.28	1.14	2.46	3.65	3.66	4.52	4.12	4.15	3.80	2.88	2.57	2.05	36.28
	MAXIMUM TOTAL (IN)	46	4.66	3.04	5.62	9.92	11.75	11.85	11.81	13.55	10.68	8.32	5.51	5.04	13.55
	YEAR OF OCCURRENCE		1960	1994	1961	1973	1996	1993	1952	1987	1961	1969	1985	1971	AUG 1987
	MINIMUM TOTAL (IN)	46	0.18	0.04	0.50	0.99	0.48	0.46	0.79	0.67	0.05	0.01	0.38	0.37	0.01
	YEAR OF OCCURRENCE		1961	1969	1996	1989	1992	1988	1991	1970	1979	1952	1976	1976	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	46	2.89	1.73	2.50	5.55	4.77	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
	YEAR OF OCCURRENCE		1960	1966	1976	1973	1996	1969	1952	1987	1961	1954	1961	1971	AUG 1987
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	9.4	7.9	10.9	11.8	11.3	9.9	9.6	9.3	9.3	9.0	9.7	10.4	118.5
	PRECIPITATION ≥ 1.00	30	0.2	0.1	0.4	0.8	1.0	1.3	1.2	0.9	1.0	0.8	0.5	0.3	8.5
SNOWFALL	NORMAL TOTAL (IN)	30	8.3	7.5	6.5	1.7	0.*	0.0	0.0	0.0	0.0	0.1	2.4	9.8	36.3
	MAXIMUM TOTAL (IN)	46	26.1	30.2	22.7	7.7	1.0	T	T	T	0.0	2.2	14.7	25.1	30.2
	YEAR OF OCCURRENCE		1979	1994	1964	1982	1966	1996	1994	1990		1967	1951	1978	FEB 1994
	MAXIMUM IN 24 HOURS (IN)	46	9.9	10.9	10.4	6.7	0.2	T	T	T	0.0	2.2	9.5	11.4	11.4
	YEAR OF OCCURRENCE		1979	1960	1972	1970	1990	1996	1994	1990		1967	1951	1987	DEC 1987
	MAXIMUM SNOW DEPTH (IN)	42	6	13	2	2	0	0	0	0	0	2	8	11	13
	YEAR OF OCCURRENCE		1982	1956	1989	1983						1993	1961	1960	FEB 1956
	NORMAL NO. DAYS WITH:														
	SNOWFALL ≥ 1.0	30	2.6	2.5	2.0	0.5	0.*	0.0	0.0	0.0	0.0	0.*	0.7	2.9	11.2

PRECIPITATION (inches) 1996 ROCKFORD, ILLINOIS (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
1992	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
1993	2.45	0.87	3.86	6.11	3.05	11.85	3.72	3.07	3.72	0.74	1.77	1.23	42.44
1994	1.00	3.04	1.15	2.66	1.41	6.04	2.84	6.28	4.06	1.11	4.42	1.26	35.27
1995	1.76	0.15	1.49	4.56	6.30	3.89	2.61	3.13	2.01	3.67	3.23	0.49	33.29
1996	1.40	0.49	0.50	2.90	11.75	4.95	9.72	2.70	1.62	3.56	0.96	2.14	42.69
POR= 91 YRS	1.63	1.35	2.49	3.39	3.78	4.41	3.77	3.79	3.78	2.71	2.38	1.70	35.18

WBAN : 94822

AVERAGE TEMPERATURE (°F) 1996 ROCKFORD, ILLINOIS (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.3
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.1
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
1992	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
1993	23.5	22.5	33.2	45.5	60.8	67.3	73.7	72.8	58.4	48.9	36.8	27.5	47.6
1994	12.6	17.2	36.4	50.7	59.8	71.6	71.1	67.8	64.6	52.9	41.2	30.3	48.0
1995	20.1	24.2	38.1	44.8	57.9	72.2	74.7	77.1	60.4	51.4	30.0	23.3	47.9
1996	18.5	23.0	29.8	45.2	55.5	68.8	69.1	71.2	62.4	50.9	30.3	24.2	45.7
POR= 90 YRS	20.5	24.4	35.3	48.2	59.5	69.1	73.7	71.8	63.8	52.2	38.1	25.3	48.5

HEATING DEGREE DAYS (base 65°F) 1996 ROCKFORD, ILLINOIS (RFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134	1181	945	843	567	220	38	6462
1992-93	12	55	165	476	849	1207	1282	1183	977	581	167	71	7025
1993-94	0	4	212	498	836	1156	1622	1334	880	445	200	22	7209
1994-95	4	34	93	376	706	1070	1388	1139	827	600	220	16	6473
1995-96	6	0	181	418	1043	1285	1432	1213	1081	589	326	38	7612
1996-	6	0	134	431	1032	1259							

WBAN : 94822

COOLING DEGREE DAYS (base 65°F) 1996 ROCKFORD, ILLINOIS (RFD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134
1992	0	0	0	0	51	119	148	79	62	3	0	0	462
1993	0	0	0	0	42	148	280	253	18	5	0	0	746
1994	0	0	0	23	45	224	200	127	86	5	0	0	710
1995	0	0	0	0	4	240	313	382	51	4	0	0	994
1996	0	0	0	0	37	158	141	196	65	0	0	0	597

SNOWFALL (inches) 1996 ROCKFORD, ILLINOIS (RFD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0	6.0	1.0	9.7	0.2	0.0	0.0	30.6
1992-93	T	0.0	0.0	0.4	1.7	11.1	13.1	9.9	13.1	1.8	0.0	0.0	51.1
1993-94	0.0	0.0	0.0	T	0.7	4.9	14.8	30.2	0.4	0.5	0.0	0.0	51.5
1994-95	T	0.0	0.0	0.0	T	12.0	17.4	0.5	2.5	T	0.0	0.0	32.4
1995-96	0.0	0.0	0.0		8.2	6.3	6.8	2.4	2.9	T	0.0	T	
1996-	0.0	0.0	0.0										
POR= 45 YRS	T	T	0.0	0.1	2.7	9.3	8.7	6.9	6.2	1.3	0.0	T	35.2

REFERENCE NOTES:

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).

GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.
THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.

GENERAL CONTINUED:
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

1996
ROCKFORD,
ILLINOIS (RFD)

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	RAIN GAGE TIPPING BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/??/72	10/??/93		42° 17'	89° 05'	720							3			Observer, T.D. Robertson.
731 North Court Street	11/??/93	12/??/12	.25 mi.WSW	42° 17'	89° 05'	720							3			Observer, H.C. Porter.
1135 North Court Street	01/??/13	06/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	06/01/18	07/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	07/30/20	09/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and daughter.
2221 North Winnebago	09/24/53	06/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42° 12'	89° 06'	725	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP	11/05/58	Present	35 ft. E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.
															S	ASOS Commissioned 07/01/95

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

UNIVERSITY OF ILLINOIS-URBANA

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1995 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-1900

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Kenneth D Hadeen

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1995

ROCKFORD, ILLINOIS

LATITUDE: 42° 12' N LONGITUDE: 89° 06' W ELEVATION: FT. GRND 733 BARO 731 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F							ASOS	ASOS	ASOS	ASOS	ASOS	ASOS	
Averages													
-Daily Maximum	26.8	32.0	48.3	54.5	68.4	83.8	85.4	86.1	72.0	62.1	38.1	30.5	57.3
-Daily Minimum	13.3	16.3	27.8	35.0	47.3	60.5	64.0	68.0	48.8	40.7	21.9	16.1	38.3
-Monthly	20.1	24.2	38.1	44.8	57.9	72.2	74.7	77.1	60.4	51.4	30.0	23.3	47.9
-Monthly Dewpt.	17.2	17.0	30.8	35.5	48.1	61.0		69.8	49.3	42.4		16.6	
Extremes													
-Highest	40	49	74	73	83	97	98	95	86	84	59	55	98
-Date	17	20	14	18	31	20	13	12	5	12	1	2	JUL 13
-Lowest	-5	-4	5	15	36	49	49	60	29	28	1	-5	-5
-Date	5	12	2	5	1	13	2	23	23	25	29	9	DEC 9
DEGREE DAYS BASE 65 °F													
Heating	1388	1139	827	600	220	16	6	0	181	418	1043	1285	7123
Cooling	0	0	0	0	4	240	313	382	51	4	0	0	994
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.0	6.1	7.6	8.0	7.4	5.8							
Midnight - Midnight	6.9	6.3	7.0	7.8	7.2	5.8							
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	9	5	3	4	10							
-Partly Cloudy	5	6	4	5	8	7							
-Cloudy	18	13	22	22	19	13							
Precipitation													
.01 inches or more	9	3	11	17	11	6	9	8	5	16	7	8	110
Snow,Ice Pellets,Hail													
1.0 inches or more	5	0	1	0	0	0	0	0	0	0	2	3	11
Thunderstorms	0	0	3	5	4	5	8	8	3	2	1	0	39
Heavy Fog, visibility													
1/4 mile or less	3	0	2	1	0	2	2	4	0	0	1	2	17
Temperature F °													
-Maximum													
90° and above	0	0	0	0	0	8	9	6	0	0	0	0	23
32° and below	22	13	6	0	0	0	0	0	0	0	9	19	69
-Minimum													
32° and below	30	28	18	11	0	0	0	0	2	4	28	31	152
0 °and below	7	2	0	0	0	0	0	0	0	0	0	4	13
AVG. STATION PRESS. (mb)	990.2	991.2	992.9	986.5	987.0	988.2		988.5	991.5	985.4		993.2	
RELATIVE HUMIDITY (%)													
Hour 00	90	81	88	81	84	84		91	83			80	
Hour 06 (Local Time)	93	85	91	90	86	87	92	95	90	89	83	80	88
Hour 12	80	65	67	59	59	57	59	69	52	61	67	67	64
Hour 18	87	72	70	63	61	57		75	61	71		78	
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.76	0.15	1.49	4.56	6.30	3.89	2.61	3.13	2.01	3.67	3.23	0.49	33.29
-Greatest (24 hrs)	0.97	0.14	0.65	1.61	1.71	1.80	0.93	1.58	0.70	1.84	1.54	0.14	1.84
-Date	13-14	26-27	26-27	26-27	8- 9	27	4	15-16	7	5- 6	10-11	30-31	OCT 5- 6
Snow,Ice pellets,Hail													
-Total	17.4	0.5	2.5	T	0.0	0.0	0.0	0.0	0.0		8.2	6.3	
-Greatest (24 hrs)	8.3	0.3	1.7	T	0.0	0.0	0.0	0.0	0.0		6.6	2.3	
-Date	19	7	4- 5	12							27	8	
WIND:													
Resultant													
-Direction (!!)	304	302	077	020	093	070		169	182	237		309	
-Speed (mph)	2.9	4.1	0.5	1.3	0.3	0.9		2.1	0.9	3.9		3.3	
Average Speed (mph)	9.4	11.0	9.5	11.6	9.5	7.1		6.5	8.1	9.9	10.8	10.2	
Fastest Obs. 2 Min.													
-Direction (!!)	02	29	27	07	14	10	21	03	20	20	03	30	21
-Speed (mph)	23	29	25	37	28	30	48	33	29	36	34	37	48
-Date	19	11	20	10	13	27	4	28	30	23	27	5	JUL 4
Peak Gust													
-Direction (!!)		NW	W	E	SE	E	19	03	18	24	29	29	
-Speed (mph)		40	37	48	40	51	92	46	41	49	52	55	
-Date		10	20	10	13	27	4	28	30	24	21	5	

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42° 12' N LONGITUDE: 89° 06' W ELEVATION: FT. GRND 733 BARO 731 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F														
Normals														
-Daily Maximum		26.6	31.6	43.8	58.4	70.8	80.2	83.8	81.4	74.1	62.3	46.3	31.8	57.6
-Daily Minimum		9.8	14.2	26.1	36.9	47.4	57.4	62.5	60.3	52.0	40.6	29.5	16.1	37.7
-Monthly		18.2	22.9	35.0	47.7	59.1	68.8	73.2	70.9	63.1	51.5	38.0	24.0	47.7
Extremes														
-Record Highest	45	63	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	45	-27	-22	-11	5	24	37	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1993	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65 °F)		1451	1179	930	519	239	24	5	15	99	427	810	1271	6969
Cooling (base 65 °F)		0	0	0	0	56	138	259	198	42	9	0	0	702
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER(tenths)														
Sunrise - Sunset	45	6.7	6.5	7.0	6.7	6.3	6.0	5.7	5.7	5.5	5.8	7.1	7.1	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	45	7.4	7.4	5.9	6.4	7.6	7.4	8.9	9.1	9.8	10.1	6.3	6.7	93.0
-Partly Cloudy	45	6.7	6.0	7.8	7.7	9.2	10.6	11.9	10.8	8.7	7.5	5.8	5.6	98.3
-Cloudy	45	16.9	14.8	17.3	15.9	14.1	12.0	10.2	11.1	11.5	13.5	18.0	18.7	173.9
Precipitation														
.01 inches or more	45	9.4	7.9	11.0	11.9	11.2	10.0	9.8	9.1	9.0	8.8	9.4	10.1	117.7
Snow,Ice Pellets,Hail														
1.0 inches or more	45	2.9	2.3	2.0	0.4	0.*	0.0	0.0	0.0	0.0	0.*	0.8	2.9	11.4
Thunderstorms	45	0.1	0.4	2.0	4.2	5.4	7.6	7.9	6.3	4.7	2.4	1.1	0.3	42.4
Heavy Fog Visibility														
1/4 mile or less	45	2.5	2.4	2.6	1.2	1.0	0.6	1.2	1.8	1.7	1.9	2.2	3.0	22.0
Temperature °F														
-Maximum														
90° and above	32	0.0	0.0	0.0	0.1	0.6	3.2	6.0	3.6	1.0	0.*	0.0	0.0	14.5
32° and below	32	19.2	14.1	4.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.1	14.1	55.4
-Minimum														
32° and below	32	29.5	26.3	22.9	8.9	1.2	0.0	0.0	0.0	0.6	7.1	19.7	27.7	143.9
0° and below	32	8.8	5.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	17.8
AV. STATION PRES.(mb)	23	991.5	991.8	988.8	987.8	987.9	987.9	989.2	990.4	990.9	990.8	990.2	991.6	989.9
RELATIVE HUMIDITY (%)														
Hour 00	32	79	79	78	75	76	78	83	87	86	81	81	82	80
Hour 06 (Local Time)	32	80	81	82	80	80	81	86	91	90	86	84	83	84
Hour 12	32	71	66	62	55	53	54	57	59	58	57	67	73	61
Hour 18	32	75	71	65	56	54	54	59	63	65	65	73	78	65
PRECIPITATION (ins):														
Water Equivalent														
-Normal		1.28	1.14	2.46	3.65	3.66	4.52	4.12	4.15	3.80	2.88	2.57	2.05	36.28
-Maximum Monthly	45	4.66	3.04	5.62	9.92	6.98	11.85	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1994	1961	1973	1974	1993	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	45	0.18	0.04	0.52	0.99	0.48	0.46	0.79	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1989	1992	1988	1991	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	45	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice Pellets,Hail														
-Maximum Monthly	45	26.1	30.2	22.7	7.7	1.0	0.0	T	T	0.0	2.2	14.7	25.1	30.2
-Year		1979	1994	1964	1982	1966		1994	1990		1967	1951	1978	FEB 1994
-Maximum in 24 hrs	45	9.9	10.9	10.4	6.7	0.2	0.0	T	T	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1990		1994	1990		1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	45	10.5	10.6	11.6	11.8	10.4	9.3	8.1	7.7	8.4	9.5	10.6	10.4	9.9
Prevailing Direction														
through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 2 Min.														
-Direction (!!)	45	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (mph)		40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR 1953
Peak Gust														
-Direction (!!)	6			SW			NW	19			24			19
-Speed (mph)	12	51	54	54	58	81	54	92	58	58	49	59	62	92
-Date		1988	1987	1990	1984	1988	1990	1995	1987	1988	1995	1988	1987	JUL 1995

(!!) See Reference Notes on Page 6B

PRECIPITATION (inches) ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
1992	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
1993	2.45	0.87	3.86	6.11	3.05	11.85	3.72	3.07	3.72	0.74	1.77	1.23	42.44
1994	1.00	3.04	1.15	2.66	1.41	6.04	2.84	6.28	4.06	1.11	4.42	1.26	35.27
1995	1.76	0.15	1.49	4.56	6.30	3.89	2.61	3.13	2.01	3.67	3.23	0.49	33.29
Record Mean	1.63	1.35	2.51	3.40	3.69	4.40	3.77	3.84	3.81	2.76	2.47	1.75	35.41

(!!) See Reference Notes on Page 6B

AVERAGE TEMPERATURE (deg. F) ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
1992	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
1993	23.5	22.5	33.2	45.5	60.8	67.3	73.7	72.8	58.4	48.9	36.8	27.5	47.6
1994	12.6	17.2	36.4	50.7	59.8	71.6	71.1	67.8	64.6	52.9	41.2	30.3	48.0
1995	20.1	24.2	38.1	44.8	57.9	72.2	74.7	77.1	60.4	51.4	30.0	23.3	47.9
Record Mean	20.6	24.4	35.3	48.2	59.5	69.1	73.8	71.8	63.8	52.2	38.2	25.4	48.5
Record Max	29.1	33.0	44.6	59.2	71.3	80.6	85.4	83.2	75.4	63.3	46.9	33.1	58.8
Record Min	12.0	15.8	26.1	37.1	47.7	57.6	62.2	60.4	52.2	41.0	29.4	17.6	38.3

(!!) See Reference Notes on Page 6B

HEATING DEGREE DAYS Base 65 deg. F ROCKFORD, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134	1181	945	843	567	220	38	6462
1992-93	12	55	165	476	849	1207	1282	1183	977	581	167	71	7025
1993-94	0	4	212	498	836	1156	1622	1334	880	445	200	22	7209
1994-95	4	34	93	376	706	1070	1388	1139	827	600	220	16	6473
1995-96	6	0	181	418	1043	1285							

(!!) See Reference Notes on Page 6B

COOLING DEGREE DAYS Base 65 deg. F ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134
1992	0	0	0	0	51	119	148	79	62	3	0	0	462
1993	0	0	0	0	42	148	280	253	18	5	0	0	746
1994	0	0	0	23	45	224	200	127	86	5	0	0	710
1995	0	0	0	0	4	240	313	382	51	4	0	0	994

(!!) See Reference Notes on Page 6B

SNOWFALL (inches) — ROCKFORD, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0	6.0	1.0	9.7	0.2	0.0	0.0	30.6
1992-93	T	0.0	0.0	0.4	1.7	11.1	13.1	9.9	13.1	1.8	0.0	0.0	51.1
1993-94	0.0	0.0	0.0	T	0.7	4.9	14.8	30.2	0.4	0.5	0.0	0.0	51.5
1994-95	T	0.0	0.0	0.0	T	12.0	17.4	0.5	2.5	T	0.0	0.0	32.4
1995-96	0.0	0.0	0.0		8.2	6.3							
Record Mean	T	T	0.0	0.1	2.7	9.3	9.0	7.1	6.4	1.3	T	0.0	35.9

(!!) See Reference Notes on Page 6B

REFERENCE NOTES — ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH
ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1961-1990 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

1995
ROCKFORD,
ILLINOIS (RFD)

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/??/72	10/??/93		42° 17′	89° 05′	720							3			Observer, T.D. Robertson.
731 North Court Street	11/??/93	12/??/12	.25 mi.WSW	42° 17′	89° 05′	720							3			Observer, H.C. Porter.
1135 North Court Street	01/??/13	06/01/18	.5 mi. NE	42° 17′	89° 05′	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	06/01/18	07/29/20	.5 mi. SW	42° 17′	89° 05′	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	07/30/20	09/23/53	.75 mi. NE	42° 17′	89° 05′	720		5					3			Observer, F. W. Knowlton and daughter.
2221 North Winnebago	09/24/53	06/30/57	1.1 mi. NW	42° 18′	89° 06′	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42° 12′	89° 06′	725	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP	11/05/58	Present	35 ft. E	42° 12′	89° 06′	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85. ASOS Commissioned 07/01/95

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

UNIVERSITY OF ILLINOIS-URBANA

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1994 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

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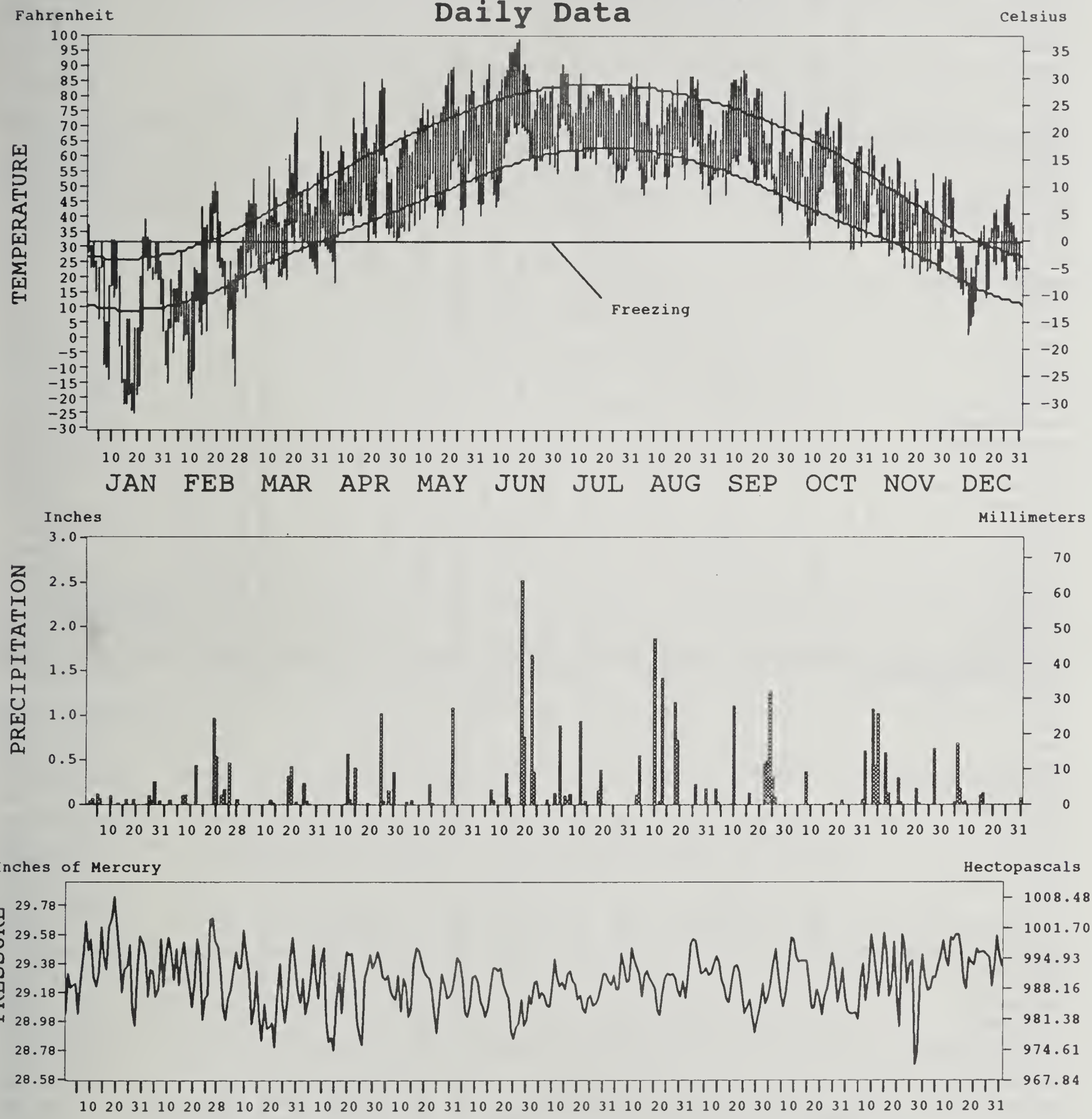
ROCKFORD,
ILLINOIS (RFD)

Daily Data



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Kenneth D Hadeen

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METEOROLOGICAL DATA FOR 1994

ROCKFORD, ILLINOIS

LATITUDE: 42° 12' N LONGITUDE: 89° 06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F													
Averages													
-Daily Maximum	20.8	27.2	46.6	62.5	73.5	84.4	81.1	77.8	74.9	63.1	50.0	37.4	58.3
-Daily Minimum	4.3	7.2	26.1	38.8	46.0	58.7	61.0	57.8	54.2	42.7	32.4	23.2	37.7
-Monthly	12.6	17.2	36.4	50.7	59.8	71.6	71.1	67.8	64.6	52.9	41.2	30.3	48.0
-Monthly Dewpt.	7.8	12.1	26.4	33.1	43.1	57.7	64.2	61.4	57.0	44.2	35.8	27.8	39.2
Extremes													
-Highest	40	52	73	86	90	99	91	88	89	77	67	54	99
-Date	23	19	23	25	23	18	5	3	14	17	3	2	JUN 18
-Lowest	-24	-19	14	19	33	41	52	48	38	30	22	2	-24
-Date	19	10	3	7	1	3	28	6	29	27	30	11	JAN 19
DEGREE DAYS BASE 65 °F													
Heating	1622	1334	880	445	200	22	4	34	93	376	706	1070	6786
Cooling	0	0	0	23	45	224	200	127	86	5	0	0	710
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.6	5.8	6.6	6.3	4.9	5.9	6.4	5.9	5.9	6.4	6.9	7.5	6.3
Midnight - Midnight	6.8	5.8	5.7	6.3	4.6	5.6	6.0	5.6	5.6	6.1	6.6	7.4	6.0
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	10	5	8	11	5	6	11	8	9	6	5	92
-Partly Cloudy	6	4	12	9	12	16	13	7	9	5	8	4	105
-Cloudy	17	14	14	13	8	9	12	13	13	17	16	22	168
Precipitation													
.01 inches or more	14	12	9	10	5	9	11	9	10	6	11	8	114
Snow,Ice Pellets,Hail													
1.0 inches or more	9	8	0	0	0	0	0	0	0	0	0	4	21
Thunderstorms	1	0	3	3	2	5	9	8	4	0	1	0	36
Heavy Fog, visibility													
1/4 mile or less	1	5	4	0	0	0	0	0	3	1	1	5	20
Temperature F °													
-Maximum													
90° and above	0	0	0	0	1	7	1	0	0	0	0	0	9
32° and below	24	20	1	0	0	0	0	0	0	0	1	10	56
-Minimum													
32° and below	31	26	26	6	0	0	0	0	0	4	16	25	134
0 °and below	13	8	0	0	0	0	0	0	0	0	0	0	21
AVG. STATION PRESS. (mb)	994.9	993.9	988.8	988.5	990.2	987.5	988.8	990.9	990.5	991.2	990.2	995.6	990.9
RELATIVE HUMIDITY (%)													
Hour 00	82	84	80	65	70	78	92	92	91	85	89	93	83
Hour 06 (Local Time)	83	82	85	72	77	82	94	95	96	92	90	94	87
Hour 12	74	69	56	45	43	51	67	70	64	61	72	82	63
Hour 18	80	75	60	47	42	50	69	74	72	69	78	89	67
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.00	3.04	1.15	2.66	1.41	6.04	2.84	6.28	4.06	1.11	4.42	1.26	35.27
-Greatest (24 hrs)	0.30	1.51	0.75	1.06	1.08	2.52	0.94	1.87	1.28	0.66	1.46	0.84	2.52
-Date	26-27	19-20	20-21	25-26	23	19	12	10	23-24	30-31	3- 4	6- 7	JUN 19
Snow,Ice pellets,Hail													
-Total	14.8	30.2	0.4	0.5	0.0	0.0	T	0.0	0.0	0.0	T	12.0	57.9
-Greatest (24 hrs)	3.2	9.3	0.3	0.5	0.0	0.0	T	0.0	0.0	0.0	T	8.6	9.3
-Date	5- 6	22-23	13	30			20				29	6- 7	FEB 22-23
WIND:													
Resultant													
-Direction (!!)	328	318	282	266	291	213	231	212	215	183	224	213	252
-Speed (mph)	2.1	0.8	3.1	2.1	1.5	0.3	2.4	1.1	2.1	1.4	2.7	0.1	1.2
Average Speed (mph)	10.1	9.8	9.4	12.8	8.2	7.9	7.6	7.2	6.0	8.6	10.1	7.6	8.8
Fastest Obs. 1 Min.													
-Direction (!!)	09	05	28	30	31	19	36	32	34	18	26	02	32
-Speed (mph)	22	29	23	29	26	22	20	33	28	25	25	21	33
-Date	26	23	24	16	11	14	12	19	10	7	28	7	AUG 19
Peak Gust													
-Direction (!!)	NE	NE	W	NW	W	N	SW	NW	NW	SW	W	NE	NW
-Speed (mph)	35	40	36	46	43	35	44	48	38	39	41	32	48
-Date	26	22	23	16	23	24	4	19	10	7	28	6	AUG 19

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42° 12' N LONGITUDE: 89° 06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F														
Normals														
-Daily Maximum		26.6	31.6	43.8	58.4	70.8	80.2	83.8	81.4	74.1	62.3	46.3	31.8	57.6
-Daily Minimum		9.8	14.2	26.1	36.9	47.4	57.4	62.5	60.3	52.0	40.6	29.5	16.1	37.7
-Monthly		18.2	22.9	35.0	47.7	59.1	68.8	73.2	70.9	63.1	51.5	38.0	24.0	47.7
Extremes														
-Record Highest	44	63	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	44	-27	-22	-11	5	24	37	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1993	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65 °F)		1451	1179	930	519	239	24	5	15	99	427	810	1271	6969
Cooling (base 65 °F)		0	.0	0	0	56	138	259	198	42	9	0	0	702
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER(tenths)														
Sunrise - Sunset	44	6.7	6.5	6.9	6.7	6.2	6.0	5.7	5.7	5.5	5.8	7.1	7.1	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	44	7.4	7.3	5.9	6.5	7.7	7.4	8.9	9.1	9.8	10.1	6.3	6.7	93.1
-Partly Cloudy	44	6.7	6.0	7.9	7.8	9.3	10.6	11.9	10.8	8.7	7.5	5.8	5.6	98.6
-Cloudy	44	16.9	14.9	17.2	15.7	14.0	12.0	10.2	11.1	11.5	13.5	18.0	18.7	173.5
Precipitation														
.01 inches or more	44	9.4	8.0	11.0	11.8	11.2	10.1	9.8	9.2	9.1	8.7	9.5	10.2	117.8
Snow,Ice Pellets,Hail														
1.0 inches or more	44	2.9	2.4	2.0	0.4	0.*	0.0	0.0	0.0	0.0	0.*	0.8	2.9	11.4
Thunderstorms	44	0.1	0.4	2.0	4.1	5.5	7.7	7.9	6.3	4.8	2.4	1.1	0.3	42.5
Heavy Fog Visibility														
1/4 mile or less	44	2.5	2.4	2.6	1.2	1.0	0.6	1.2	1.8	1.7	1.9	2.3	3.0	22.1
Temperature °F														
-Maximum														
90° and above	31	0.0	0.0	0.0	0.1	0.6	3.1	5.9	3.5	1.0	0.*	0.0	0.0	14.2
32° and below	31	19.1	14.1	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.9	13.9	54.9
-Minimum														
32° and below	31	29.5	26.2	23.1	8.9	1.2	0.0	0.0	0.0	0.5	7.2	19.4	27.6	143.6
0° and below	31	8.8	5.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	18.0
AV. STATION PRES.(mb)	22	991.6	991.9	988.6	987.9	987.9	987.8	989.2	990.5	990.9	991.0	990.2	991.5	989.9
RELATIVE HUMIDITY (%)														
Hour 00	31	79	79	78	75	76	78	83	87	86	81	81	82	80
Hour 06 (Local Time)	31	80	81	81	80	80	81	86	90	90	86	84	83	84
Hour 12	31	70	66	62	55	53	54	57	59	58	57	67	73	61
Hour 18	31	75	71	65	56	54	54	59	63	65	64	73	78	65
PRECIPITATION (ins):														
Water Equivalent														
-Normal		1.28	1.14	2.46	3.65	3.66	4.52	4.12	4.15	3.80	2.88	2.57	2.05	36.28
-Maximum Monthly	44	4.66	3.04	5.62	9.92	6.98	11.85	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1994	1961	1973	1974	1993	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	44	0.18	0.04	0.52	0.99	0.48	0.46	0.79	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1989	1992	1988	1991	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	44	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice Pellets,Hail														
-Maximum Monthly	44	26.1	30.2	22.7	7.7	1.0	0.0	T	T	0.0	2.2	14.7	25.1	30.2
-Year		1979	1994	1964	1982	1966		1994	1990		1967	1951	1978	FEB 1994
-Maximum in 24 hrs	44	9.9	10.9	10.4	6.7	0.2	0.0	T	T	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1990		1994	1990		1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	44	10.5	10.6	11.6	11.8	10.4	9.3	8.1	7.8	8.4	9.5	10.6	10.4	9.9
Prevailing Direction														
through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!)	44	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (mph)		40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR. 1953
Peak Gust														
-Direction (!!)	5			SW			NW							
-Speed (mph)	11	51	54	54	58	81	54	70	58	58	49	59	62	81
-Date		1988	1987	1990	1984	1988	1990	1984	1987	1988	1988	1988	1987	MAY 1988

(!!) See Reference Notes on Page 6B

PRECIPITATION (inches) ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
1992	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
1993	2.45	0.87	3.86	6.11	3.05	11.85	3.72	3.07	3.72	0.74	1.77	1.23	42.44
1994	1.00	3.04	1.15	2.66	1.41	6.04	2.84	6.28	4.06	1.11	4.42	1.26	35.27
Record Mean	1.63	1.37	2.53	3.39	3.66	4.41	3.78	3.85	3.83	2.75	2.46	1.76	35.43

(!!) See Reference Notes on Page 6B

AVERAGE TEMPERATURE (deg. F) ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
1992	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
1993	23.5	22.5	33.2	45.5	60.8	67.3	73.7	72.8	58.4	48.9	36.8	27.5	47.6
1994	12.6	17.2	36.4	50.7	59.8	71.6	71.1	67.8	64.6	52.9	41.2	30.3	48.0
Record Mean	20.6	24.4	35.3	48.2	59.5	69.1	73.8	71.8	63.9	52.2	38.2	25.4	48.5
Max	29.1	33.0	44.6	59.2	71.3	80.6	85.4	83.2	75.4	63.3	46.9	33.1	58.8
Min	12.0	15.8	26.1	37.2	47.7	57.6	62.2	60.3	52.3	41.0	29.5	17.6	38.3

(!!) See Reference Notes on Page 6B

HEATING DEGREE DAYS Base 65 deg. F ROCKFORD, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134	1181	945	843	567	220	38	6462
1992-93	12	55	165	476	849	1207	1282	1183	977	581	167	71	7025
1993-94	0	4	212	498	836	1156	1622	1334	880	445	200	22	7209
1994-95	4	34	93	376	706	1070							

(!!) See Reference Notes on Page 6B

COOLING DEGREE DAYS Base 65 deg. F ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134
1992	0	0	0	0	51	119	148	79	62	3	0	0	462
1993	0	0	0	0	42	148	280	253	18	5	0	0	746
1994	0	0	0	23	45	224	200	127	86	5	0	0	710

(!!) See Reference Notes on Page 6B

SNOWFALL (inches) — ROCKFORD, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0	6.0	1.0	9.7	0.2	0.0	0.0	30.6
1992-93	T	0.0	0.0	0.4	1.7	11.1	13.1	9.9	13.1	1.8	0.0	0.0	51.1
1993-94	0.0	0.0	0.0	T	0.7	4.9	14.8	30.2	0.4	0.5	0.0	0.0	51.5
1994-95	T	0.0	0.0	0.0	T	12.0							
Record Mean	T	T	0.0	0.1	2.6	9.4	8.8	7.2	6.5	1.3	T	0.0	35.9

(!!) See Reference Notes on Page 6B

REFERENCE NOTES — ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH
ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1961-1990 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

ROCKFORD, ILLINOIS

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

1994
ROCKFORD, ILLINOIS (RFD)

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/?/72	10/?/93		42°17'	89°05'	720							3			Observer, T.D. Robertson.
731 North Court Street	11/?/93	12/?/12	.25 mi.WSW	42°17'	89°05'	720							3			Observer, H.C. Porter.
1135 North Court Street	1/?/13	6/01/18	.5 mi. NE	42°17'	89°05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/01/18	7/29/20	.5 mi. SW	42°17'	89°05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42°17'	89°05'	720		5					3			Observer, F.W. Knowlton and daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42°18'	89°06'	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42°12'	89°06'	728	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP Fed. Facilities Bldg.	11/05/58	Present	35 ft. E	42°12'	89°06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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ISSN 0198-1900

1993 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD,
ILLINOIS

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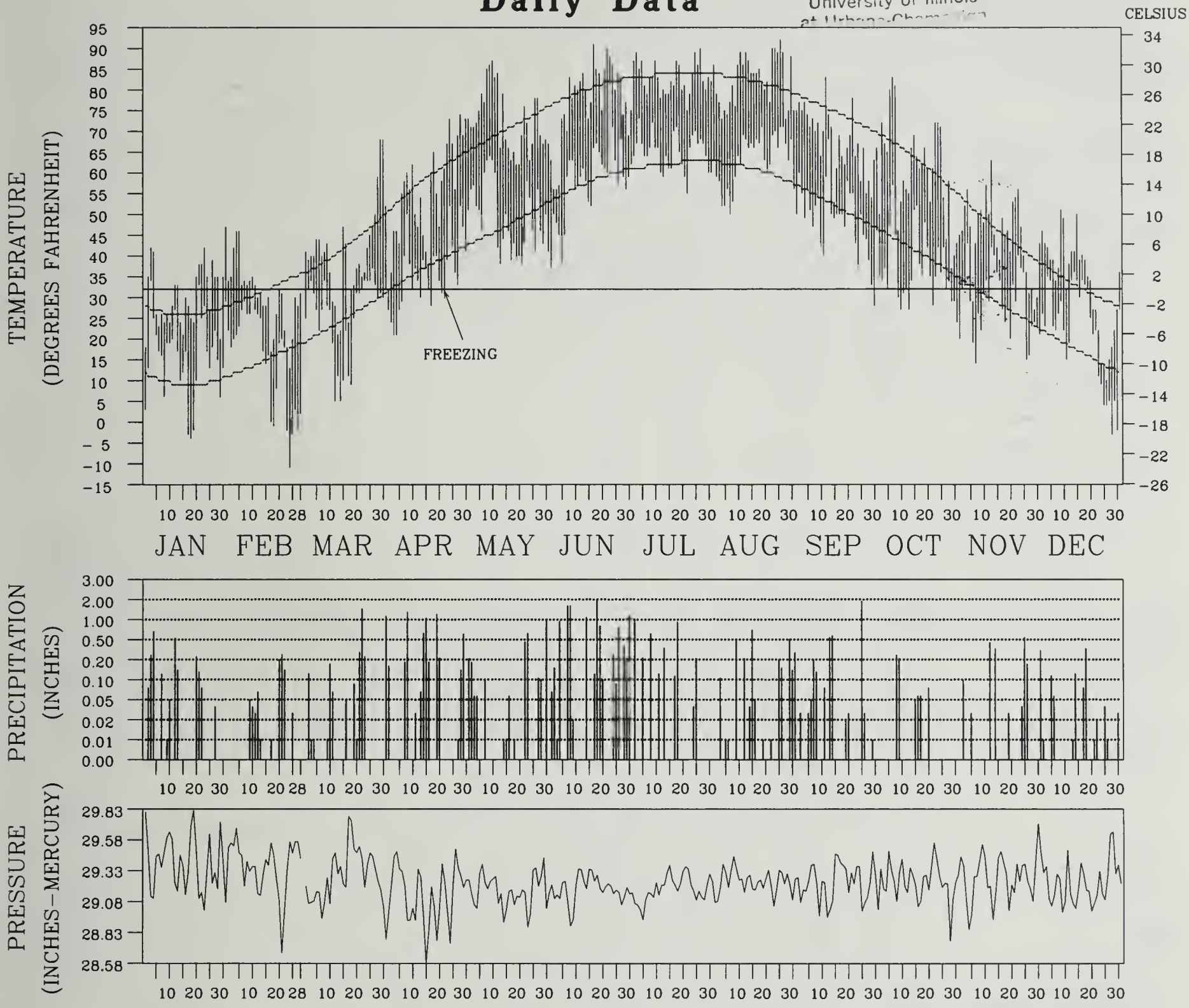

TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1993

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	30.9	30.0	40.8	55.4	72.5	77.3	82.6	82.4	67.8	60.8	45.0	33.7	56.6
-Daily Minimum	16.0	15.0	25.6	35.5	49.0	57.3	64.8	63.1	48.9	37.0	28.6	21.2	38.5
-Monthly	23.5	22.5	33.2	45.5	60.8	67.3	73.7	72.8	58.4	48.9	36.8	27.5	47.6
-Monthly Dewpt.	19.2	17.0	27.1	35.3	48.6	57.8	65.4	64.4	51.0	38.1	29.4	21.6	39.6
Extremes													
-Highest	47	46	68	74	87	91	90	92	83	83	63	51	92
-Date	31	5	30	28	10	17	27	26	12	7	13	9	AUG 26
-Lowest	-4	-11	5	21	38	37	55	50	28	24	14	-3	-11
-Date	18	24	14	4	21	1	22	7	30	31	7	28	FEB 24
DEGREE DAYS BASE 65 °F:													
Heating	1282	1183	977	581	167	71	0	4	212	498	836	1156	6967
Cooling	0	0	0	0	42	148	280	253	18	5	0	0	746
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.3	7.1	7.5	7.5	7.1	6.7	7.5	6.5	6.8	4.8	7.5	8.1	7.0
Midnight - Midnight	7.0	6.6	7.6	7.1	6.8	6.7	7.1	6.0	6.7	4.8	7.2	7.9	6.8
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	6	6	3	4	9	3	5	5	14	2	4	69
-Partly Cloudy	4	5	4	11	12	5	9	14	11	4	10	4	93
-Cloudy	19	17	21	16	15	16	19	12	14	13	18	23	203
Precipitation .01 inches or more	12	10	13	13	14	18	9	15	13	6	8	13	144
Snow,Ice pellets,hail 1.0 inches or more	6	3	5	1	0	0	0	0	0	0	0	2	17
Thunderstorms	0	0	0	3	2	14	8	10	3	0	0	0	40
Heavy Fog, visibility 1/4 mile or less	2	3	8	0	1	0	1	1	1	0	1	1	19
Temperature °F													
-Maximum													
90° and above	0	0	0	0	0	2	1	3	0	0	0	0	6
32° and below	16	17	6	1	0	0	0	0	0	0	5	11	56
-Minimum													
32° and below	29	28	24	12	0	0	0	0	1	11	19	24	148
0° and below	3	6	0	0	0	0	0	0	0	0	0	2	11
AVG. STATION PRESS. (mb)	994.9	994.2	991.2	986.5	987.5	988.2	988.2	990.2	989.8	989.8	991.2	989.8	990.2
RELATIVE HUMIDITY (%)													
Hour 00	87	86	85	80	80	84	87	90	88	80	82	81	84
Hour 06 (Local Time)	86	86	89	84	83	87	89	92	92	84	85	85	87
Hour 12	75	69	72	58	53	62	63	63	65	51	65	69	64
Hour 18	82	75	75	61	59	63	68	67	73	60	74	76	69
PRECIPITATION (inches):													
Water Equivalent													
-Total	2.45	0.87	3.86	6.11	3.05	11.85	3.72	3.07	3.72	0.74	1.77	1.23	42.44
-Greatest (24 hrs)	0.73	0.47	1.55	1.60	0.98	2.88	1.05	0.79	1.93	0.49	0.73	0.41	2.88
-Date	3- 4	20-21	22-23	14-15	30	18-19	17-18	14-15	25	8- 9	25-26	17-18	JUN 18-19
Snow,Ice pellets,hail													
-Total	13.1	9.9	13.1	1.8	0.0	0.0	0.0	0.0	0.0	T	0.7	4.9	43.5
-Greatest (24 hrs)	4.2	4.8	6.6	1.6	0.0	0.0	0.0	0.0	0.0	T	0.5	1.4	6.6
-Date	12-13	20-21	21-22	PM- 1						30	5- 6	18	MAR 21-22
WIND:													
Resultant													
-Direction (!!)	288	356	018	038	190	189	199	226	260	254	206	259	262
-Speed (mph)	3.1	2.6	3.4	3.0	1.4	1.7	2.2	1.4	1.9	3.3	3.1	2.2	0.9
Average Speed (mph)	10.2	9.7	10.5	11.1	9.6	9.2	8.3	6.7	7.7	9.1	9.9	9.2	9.3
Fastest Obs. 1 Min.													
-Direction (!!)	23	05	03	25	05	06	17	29	16	27	30	31	06
-Speed (mph)	25	28	30	29	29	33	32	30	26	25	26	26	33
-Date	30	11	4	24	12	30	31	30	30	21	19	29	JUN 30
Peak Gust													
-Direction (!!)	W	NE	NE	W	W	NE	NW	SW	S	W	NW	NW	NE
-Speed (mph)	40	35	39	41	40	47	45	46	33	39	36	39	47
-Date	30	11	31	24	24	30	5	30	13	21	19	29	JUN 30

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.3	23.4	33.8	47.9	59.1	68.9	73.0	71.3	63.3	52.1	37.5	24.8	47.8
Extremes														
-Record Highest	43	63	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	43	-27	-22	-11	5	24	37	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1993	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	43	6.7	6.5	6.9	6.7	6.3	6.0	5.6	5.7	5.5	5.8	7.1	7.1	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	43	7.4	7.3	6.0	6.4	7.7	7.4	9.0	9.0	9.8	10.1	6.3	6.7	93.1
-Partly Cloudy	43	6.7	6.1	7.8	7.8	9.2	10.5	11.8	10.9	8.7	7.5	5.7	5.7	98.5
-Cloudy	43	16.9	14.9	17.3	15.8	14.2	12.0	10.2	11.0	11.5	13.4	18.0	18.6	173.7
Precipitation .01 inches or more	43	9.3	7.9	11.0	11.8	11.3	10.2	9.8	9.2	9.1	8.7	9.4	10.2	117.9
Snow,Ice pellets,hail 1.0 inches or more	43	2.7	2.2	2.0	0.4	0.*	0.0	0.0	0.0	0.0	0.*	0.8	2.8	11.1
Thunderstorms	43	0.1	0.4	1.9	4.2	5.5	7.8	7.9	6.3	4.8	2.4	1.1	0.3	42.6
Heavy Fog Visibility 1/4 mile or less	43	2.6	2.4	2.6	1.2	1.0	0.6	1.2	1.8	1.7	2.0	2.3	2.9	22.2
Temperature °F														
-Maximum														
90° and above	30	0.0	0.0	0.0	0.1	0.6	2.9	6.1	3.6	1.0	0.*	0.0	0.0	14.4
32° and below	30	19.0	13.9	4.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.0	14.1	54.9
-Minimum														
32° and below	30	29.5	26.2	23.0	9.0	1.2	0.0	0.0	0.0	0.6	7.3	19.5	27.7	144.0
0° and below	30	8.7	5.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.7	17.9
AVG. STATION PRESS.(mb)	21	991.4	991.8	988.6	987.8	987.8	987.9	989.2	990.5	990.9	991.0	990.2	991.3	989.9
RELATIVE HUMIDITY (%)														
Hour 00	30	79	79	78	75	76	78	83	87	86	81	81	81	80
Hour 06 (Local Time)	30	80	80	81	80	80	81	86	90	90	85	84	83	83
Hour 12	30	70	66	62	56	53	55	57	59	58	56	67	73	61
Hour 18	30	75	70	65	56	54	55	59	62	65	64	73	77	65
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	43	4.66	2.67	5.62	9.92	6.98	11.85	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1971	1961	1973	1974	1993	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	43	0.18	0.04	0.52	0.99	0.48	0.46	0.79	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1989	1992	1988	1991	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	43	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice pellets,hail														
-Maximum Monthly	43	26.1	19.5	22.7	7.7	1.0	0.0	T	T	0.0	2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966		1992	1990		1967	1951	1978	JAN 1979
-Maximum in 24 hrs	43	9.9	10.9	10.4	6.7	0.2	0.0	T	T	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1990		1992	1990		1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	43	10.6	10.6	11.7	11.8	10.5	9.3	8.1	7.8	8.5	9.5	10.6	10.5	9.9
Prevailing Direction through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	43	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (MPH)	43	40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR 1953
Peak Gust														
-Direction (!!!)	4			SW			NW							
-Speed (mph)	10	51	54	54	58	81	54	70	58	58	49	59	62	81
-Date		1988	1987	1990	1984	1988	1990	1984	1987	1988	1988	1988	1987	MAY 1988

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
1992	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
1993	2.45	0.87	3.86	6.11	3.05	11.85	3.72	3.07	3.72	0.74	1.77	1.23	42.44
Record Mean	1.64	1.35	2.54	3.39	3.69	4.39	3.79	3.82	3.83	2.77	2.44	1.77	35.44

See Reference Notes on Page 6B.
Page 4A

AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
1992	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
1993	23.5	22.5	33.2	45.5	60.8	67.3	73.7	72.8	58.4	48.9	36.8	27.5	47.6
Record Mean	20.7	24.5	35.3	48.2	59.5	69.1	73.8	71.8	63.9	52.2	38.2	25.3	48.5
Record Max	29.2	33.1	44.6	59.2	71.3	80.6	85.4	83.2	75.4	63.3	46.9	33.1	58.8
Record Min	12.1	15.9	26.1	37.1	47.7	57.5	62.2	60.3	52.3	41.0	29.5	17.5	38.3

See Reference Notes on Page 6B.
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HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134	1181	945	843	567	220	38	6462
1992-93	12	55	165	476	849	1207	1282	1183	977	581	167	71	7025
1993-94	0	4	212	498	836	1156							

See Reference Notes on Page 6B.
Page 5A

COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134
1992	0	0	0	0	51	119	148	79	62	3	0	0	462
1993	0	0	0	0	42	148	280	253	18	5	0	0	746

See Reference Notes on Page 6B.
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SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0	6.0	1.0	9.7	0.2	0.0	0.0	30.6
1992-93	T	0.0	0.0	0.4	1.7	11.1	13.1	9.9	13.1	1.8	0.0	0.0	51.1
1993-94	0.0	0.0	0.0	T	0.7	4.9							
Record Mean	T	T	0.0	0.1	2.6	9.3	8.6	6.7	6.6	1.4	T	0.0	35.4

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
- T - TRACE AMOUNT.
- BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
- # INDICATES A STATION OR INSTRUMENT RELOCATION. SEE STATION LOCATION TABLE ON PAGE B.

SPECIFIC

PAGE 2
- PM - INCLUDES LAST DAY OF PREVIOUS MONTH
- ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
- (a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
- 0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
- NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
- EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
- WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
- RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
- **BOLD** VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
- RECORD = PERIOD OF RECORD
- RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
- RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
- RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
- AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD,
ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/?/72	10/?/93		42°17'	89°05'	720							3			Observer, T.D. Robertson.
731 North Court Street	11/?/93	12/?/12	.25 mi.WSW	42°17'	89°05'	720							3			Observer, H.C. Porter.
1135 North Court Street	1/?/13	6/01/18	.5 mi. NE	42°17'	89°05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/01/18	7/29/20	.5 mi. SW	42°17'	89°05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42°17'	89°05'	720		5					3			Observer, F.W. Knowlton and daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42°18'	89°06'	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42°12'	89°06'	728	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP Fed. Facilities Bldg.	11/05/58	Present	35 ft. E	42°12'	89°06'	#724	a20	6	5	NA	e20	b6	c4	d/ f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

VERONA, ILL
JUN 6 5 PM 1994
6/24/94

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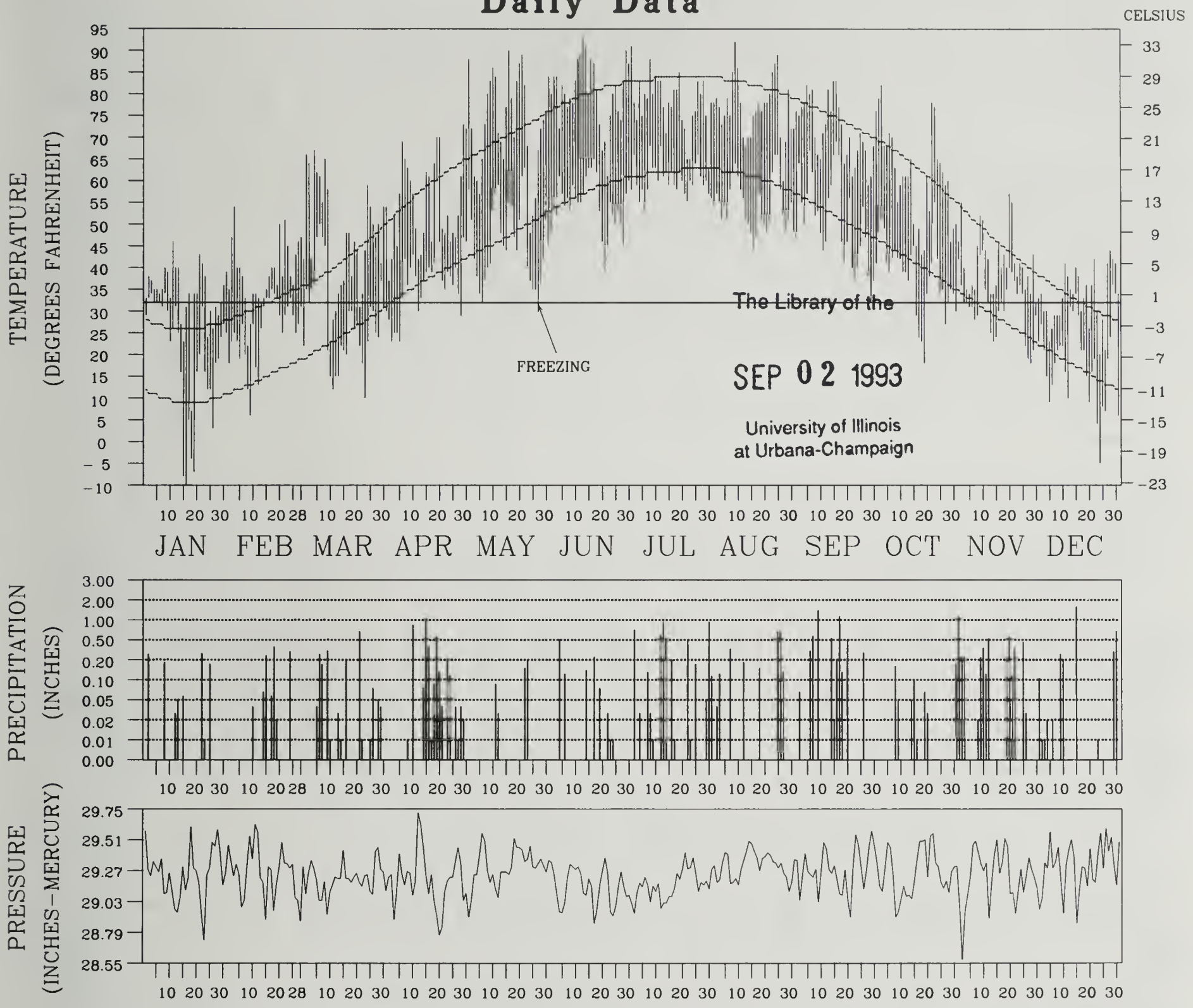
1992 LOCAL CLIMATOLOGICAL DATA

ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD,
ILLINOIS

Daily Data



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TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

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Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1992

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	33.7	38.9	47.4	55.0	73.2	80.4	78.0	76.8	71.8	61.1	41.4	33.1	57.6
-Daily Minimum	19.6	25.4	27.8	36.7	45.3	54.5	60.2	54.3	50.7	37.8	31.4	18.5	38.5
-Monthly	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
-Monthly Dewpt.	21.5	25.2	27.4	35.6	41.2	50.5	59.9	56.2	53.0	39.8	31.6	22.3	38.7
Extremes													
-Highest	46	54	67	73	90	93	91	92	83	82	57	44	93
-Date	11	3	4	29	16	13	1	9	16	3	20	28	JUN 13
-Lowest	-10	6	10	23	30	39	53	44	32	18	18	-5	-10
-Date	16	9	23	5	27	21	6	16	29	19	28	24	JAN 16
DEGREE DAYS BASE 65 °F:													
Heating	1181	945	843	567	220	38	12	55	165	476	849	1207	6558
Cooling	0	0	0	0	51	119	148	79	62	3	0	0	462
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.7	7.8	6.4	8.1	4.6	5.8	7.7	4.5	5.8	5.4	9.1	7.8	6.7
Midnight - Midnight	7.5	7.3	6.2	7.8	4.1	5.6	7.5	4.0	5.3	5.1	8.9	7.4	6.4
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	5	2	9	3	15	9	3	14	10	11	1	5	87
-Partly Cloudy	4	8	9	6	6	9	10	12	5	8	3	3	83
-Cloudy	22	19	13	21	10	12	18	5	15	12	26	23	196
Precipitation .01 inches or more	8	7	14	16	4	8	16	8	11	8	14	11	125
Snow,Ice pellets,hail 1.0 inches or more	2	0	1	0	0	0	0	0	0	0	1	3	7
Thunderstorms	0	0	3	4	2	4	9	4	6	2	1	0	35
Heavy Fog, visibility 1/4 mile or less	5	1	2	1	0	0	2	0	2	0	2	3	18
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	3	1	1	0	0	0	0	6
32° and below	10	3	4	0	0	0	0	0	0	0	1	13	31
-Minimum													
32° and below	28	23	23	7	2	0	0	0	1	7	18	28	137
0° and below	4	0	0	0	0	0	0	0	0	0	0	1	5
AVG. STATION PRESS. (mb)	990.2	990.5	988.8	988.8	992.2	986.8	987.5	992.6	991.2	990.5	989.5	992.2	990.2
RELATIVE HUMIDITY (%)													
Hour 00	82	80	80	79	66	72	85	86	87	83	87	85	81
Hour 06 (Local Time)	85	83	81	80	72	76	86	89	91	88	89	88	84
Hour 12	75	70	60	60	40	43	64	58	60	55	77	75	61
Hour 18	81	75	60	60	40	44	66	60	70	63	82	82	65
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
-Greatest (24 hrs)	0.30	0.46	0.73	1.02	0.35	0.52	1.28	1.41	1.49	0.22	1.27	1.66	1.66
-Date	22	17-18	21-22	15-16	22-23	4	13-14	25-26	9	8- 9	1- 2	15	DEC 15
Snow,Ice pellets,hail													
-Total	6.0	1.0	9.7	0.2	0.0	0.0	T	0.0	0.0	0.4	1.7	11.1	30.1
-Greatest (24 hrs)	3.1	0.8	8.3	0.2	0.0	0.0	T	0.0	0.0	0.4	1.6	6.1	8.3
-Date	24-25	10	21-22	1			13			19-20	3	9-10	MAR 21-22
WIND:													
Resultant													
-Direction (!!!)	264	331	016	070	096	059	258	255	199	245	309	231	260
-Speed (mph)	2.9	1.6	2.7	1.2	1.2	2.0	0.4	1.0	3.5	0.6	0.8	4.0	0.5
Average Speed (mph)	9.9	9.7	10.5	10.8	9.1	7.5	7.6	6.9	8.0	8.2	10.3	10.4	9.1
Fastest Obs. 1 Min.													
-Direction (!!!)	30	19	03	23	19	18	19	29	16	31	04	30	30
-Speed (mph)	29	22	29	25	28	28	23	22	24	23	29	30	30
-Date	17	20	9	20	16	17	2	30	9	12	22	25	DEC 25
Peak Gust													
-Direction (!!!)	NW	NW	N	S	S	S	NE	W	N	NW	E	SW	N
-Speed (mph)	32	30	38	33	39	36	38	30	47	35	40	40	47
-Date	23	28	9	6	16	17	13	30	16	16	1	25	SEP 16

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.3	23.4	33.8	47.9	59.1	68.9	73.0	71.3	63.3	52.1	37.5	24.8	47.8
Extremes														
-Record Highest	42	63	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	42	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1972	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	42	6.7	6.5	6.9	6.7	6.2	6.0	5.6	5.6	5.5	5.8	7.0	7.0	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	42	7.4	7.3	6.0	6.5	7.7	7.4	9.1	9.1	9.9	10.0	6.4	6.8	93.7
-Partly Cloudy	42	6.8	6.1	7.9	7.7	9.1	10.6	11.9	10.9	8.7	7.6	5.6	5.7	98.6
-Cloudy	42	16.8	14.8	17.2	15.8	14.1	12.0	10.0	11.0	11.4	13.4	18.0	18.5	173.0
Precipitation .01 inches or more	42	9.2	7.9	11.0	11.8	11.2	10.0	9.8	9.0	9.0	8.8	9.5	10.1	117.3
Snow,Ice pellets,hail 1.0 inches or more	42	2.7	2.2	2.0	0.4	0.*	0.0	0.0	0.0	0.0	0.*	0.8	2.9	11.0
Thunderstorms	42	0.1	0.4	2.0	4.2	5.6	7.6	7.9	6.2	4.8	2.5	1.1	0.4	42.7
Heavy Fog Visibility 1/4 mile or less	42	2.6	2.4	2.5	1.2	1.0	0.6	1.2	1.8	1.7	2.0	2.3	3.0	22.3
Temperature °F														
-Maximum														
90° and above	29	0.0	0.0	0.0	0.1	0.6	3.0	6.3	3.7	1.1	0.*	0.0	0.0	14.7
32° and below	29	19.1	13.8	4.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.2	54.9
-Minimum														
32° and below	29	29.5	26.2	23.0	8.9	1.3	0.0	0.0	0.0	0.6	7.2	19.5	27.8	143.8
0° and below	29	8.9	5.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.8	18.1
AVG. STATION PRESS.(mb)	20	991.3	991.6	988.5	987.9	987.8	987.8	989.2	990.5	991.0	991.1	990.1	991.4	989.9
RELATIVE HUMIDITY (%)														
Hour 00 (Local Time)	29	79	78	78	75	76	77	83	86	85	81	81	81	80
Hour 06 (Local Time)	29	79	80	81	80	80	81	85	90	90	85	83	83	83
Hour 12 (Local Time)	29	70	66	61	56	53	54	56	58	58	57	67	73	61
Hour 18 (Local Time)	29	75	70	64	56	54	54	58	62	64	64	73	77	64
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	42	4.66	2.67	5.62	9.92	6.98	9.98	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1971	1961	1973	1974	1967	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	42	0.18	0.04	0.52	0.99	0.48	0.46	0.79	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1989	1992	1988	1991	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	42	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice pellets,hail														
-Maximum Monthly	42	26.1	19.5	22.7	7.7	1.0	0.0	T	T	0.0	2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966		1992	1990		1967	1951	1978	JAN 1979
-Maximum in 24 hrs	42	9.9	10.9	10.4	6.7	0.2	0.0	T	T	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1990		1992	1990		1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	42	10.6	10.6	11.7	11.8	10.5	9.3	8.1	7.8	8.5	9.6	10.6	10.5	10.0
Prevailing Direction through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	42	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (MPH)	42	40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR 1953
Peak Gust														
-Direction (!!!)	3			SW			NW							
-Speed (mph)	9	51	54	54	58	81	54	70	58	58	49	59	62	81
-Date		1988	1987	1990	1984	1988	1990	1984	1987	1988	1988	1988	1987	MAY 1988

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
1992	1.11	1.19	2.02	3.65	0.48	1.18	5.12	2.44	5.44	0.66	4.75	3.36	31.40
Record Mean	1.63	1.35	2.53	3.36	3.70	4.31	3.79	3.83	3.83	2.79	2.45	1.78	35.36

See Reference Notes on Page 6B.
Page 4A

AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
1992	26.7	32.2	37.6	45.9	59.3	67.5	69.1	65.6	61.3	49.5	36.4	25.8	48.1
Record Mean	20.6	24.5	35.3	48.3	59.5	69.2	73.8	71.8	63.9	52.2	38.2	25.3	48.5
Max	29.2	33.1	44.6	59.3	71.3	80.7	85.4	83.2	75.5	63.4	46.9	33.1	58.8
Min	12.0	15.9	26.1	37.2	47.7	57.6	62.2	60.3	52.3	41.0	29.5	17.5	38.3

See Reference Notes on Page 6B.
Page 4B

HEATING DEGREE DAYS Base 65 deg. F — ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134	1181	945	843	567	220	38	6462
1992-93	12	55	165	476	849	1207							

See Reference Notes on Page 6B.
Page 5A

COOLING DEGREE DAYS Base 65 deg. F — ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134
1992	0	0	0	0	51	119	148	79	62	3	0	0	462

See Reference Notes on Page 6B.
Page 5B

SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0	6.0	1.0	9.7	0.2	0.0	0.0	30.6
1992-93	T	0.0	0.0	0.4	1.7	11.1							
Record Mean	T	T	0.0	0.1	2.7	9.4	8.5	6.6	6.4	1.3	T	0.0	35.2

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH
ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A .
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD,
ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/?/72	10/?/93		42°17'	89°05'	720							3			Observer, T.D. Robertson.
731 North Court Street	11/?/93	12/?/12	.25 mi.WSW	42°17'	89°05'	720							3			Observer, H.C. Porter.
1135 North Court Street	1/?/13	6/01/18	.5 mi. NE	42°17'	89°05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/01/18	7/29/20	.5 mi. SW	42°17'	89°05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42°17'	89°05'	720		5					3			Observer, F.W. Knowlton and daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42°18'	89°06'	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42°12'	89°06'	728	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP Fed. Facilities Bldg.	11/05/58	Present	35 ft. E	42°12'	89°06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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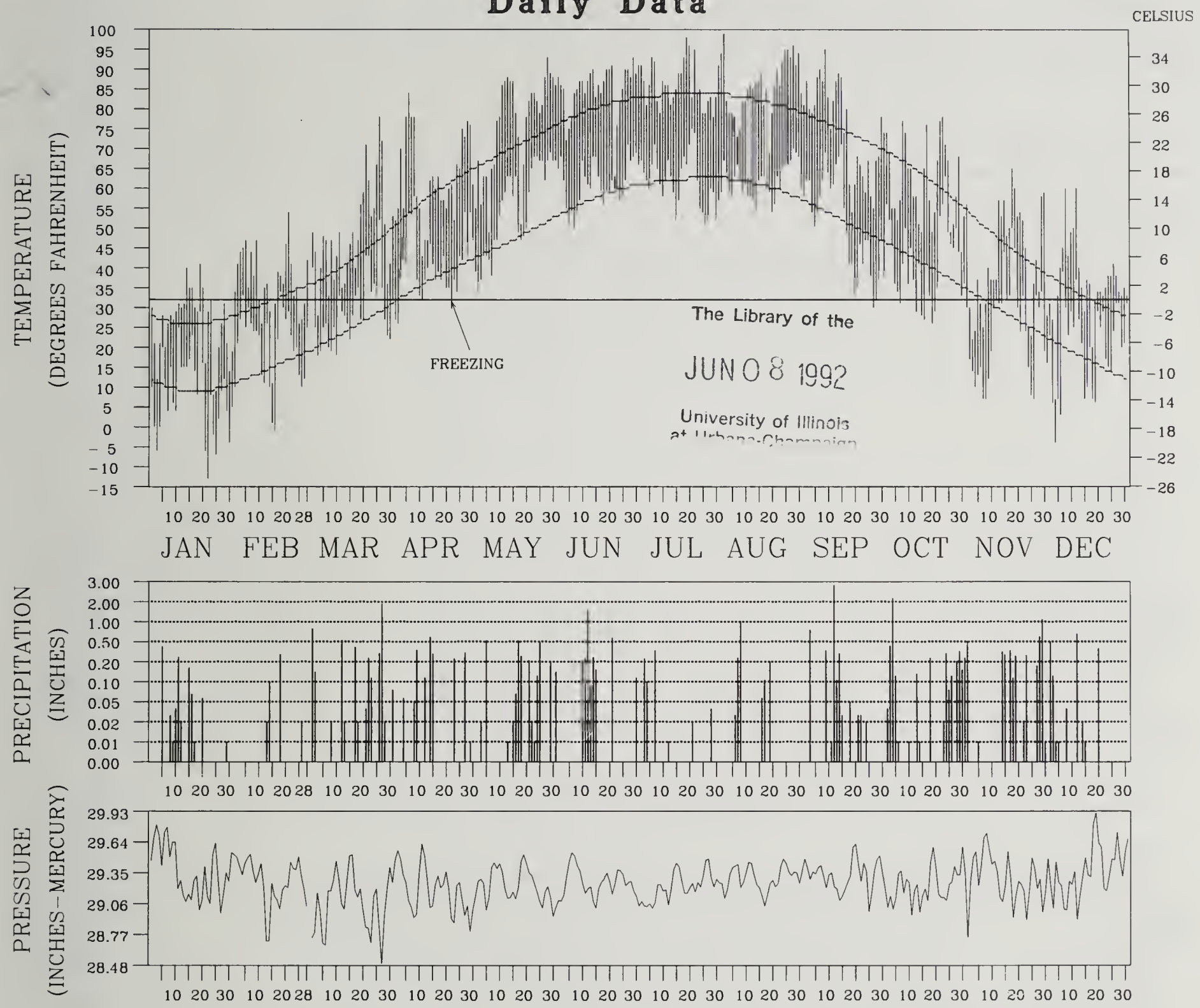
1991 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD,
ILLINOIS

Daily Data



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TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1991

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	25.9	36.5	48.8	62.8	76.0	84.8	86.4	85.7	75.0	61.8	42.6	36.4	60.2
-Daily Minimum	8.0	20.3	29.1	40.5	55.0	61.1	62.0	61.8	51.3	40.8	24.3	20.0	39.5
-Monthly	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
-Monthly Dewpt.	11.5	21.2	29.8	39.2	55.5	60.1	60.7	59.6	50.3	41.4	26.1	22.4	39.8
Extremes													
-Highest	41	54	78	84	93	93	98	99	95	78	65	60	99
-Date	19	21	26	6	28	29	19	2	9	23	18	12	AUG 2
-Lowest	-13	-1	18	26	34	50	51	54	30	26	7	-4	-13
-Date	22	16	10	2	2	7	26	20	27	19	26	4	JAN 22
DEGREE DAYS BASE 65 °F:													
Heating	1483	1018	798	402	146	6	0	1	172	421	940	1134	6521
Cooling	0	0	0	8	169	254	292	281	126	4	0	0	1134
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.8	6.5	7.1	6.9	6.8	5.3	5.3	5.5	6.1	7.0	7.6	6.7	6.5
Midnight - Midnight	6.3	5.9	6.4	6.7	6.5	4.9	4.7	4.9	5.7	6.6	7.1	6.6	6.0
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	6	5	6	5	10	7	10	6	6	3	6	78
-Partly Cloudy	7	8	8	6	13	12	16	11	11	8	8	8	116
-Cloudy	16	14	18	18	13	8	8	10	13	17	19	17	171
Precipitation .01 inches or more	11	4	14	9	14	8	6	6	11	17	13	9	122
Snow,Ice pellets,hail 1.0 inches or more	3	1	1	0	0	0	0	0	0	0	0	3	8
Thunderstorms	0	0	5	7	7	7	3	5	6	4	1	0	45
Heavy Fog, visibility 1/4 mile or less	4	3	4	2	1	0	0	0	1	2	2	4	23
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	7	9	10	2	0	0	0	29
32° and below	26	8	1	0	0	0	0	0	0	0	8	7	50
-Minimum													
32° and below	31	26	20	4	0	0	0	0	2	6	23	29	141
0° and below	8	1	0	0	0	0	0	0	0	0	0	1	10
AVG. STATION PRESS. (mb)	994.4	991.2	984.4	988.5	989.8	990.9	989.5	992.2	993.2	989.8	991.7	994.6	990.9
RELATIVE HUMIDITY (%)													
Hour 00	79	81	78	73	82	78	81	81	79	82	84	84	80
Hour 06 (Local Time)	80	82	82	80	84	81	85	86	87	85	83	83	83
Hour 12	70	63	64	56	61	51	47	48	49	58	67	71	59
Hour 18	77	70	65	53	65	54	50	50	55	68	75	79	63
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
-Greatest (24 hrs)	0.43	0.31	1.91	0.86	0.79	1.59	0.37	1.24	2.83	2.60	1.21	0.70	2.83
-Date	5	18	27	14-15	17-18	12	7	7- 8	11-12	3- 4	28-29	12	SEP 11-12
Snow,Ice pellets,hail													
-Total	15.3	2.8	6.9	T	0.0	0.0	0.0	0.0	0.0	T	0.7	13.0	38.7
-Greatest (24 hrs)	5.1	2.3	6.3	T	0.0	0.0	0.0	0.0	0.0	T	0.4	7.7	7.7
-Date	5	13-14	12-13	12						18	27	2- 3	DEC 2- 3
WIND:													
Resultant													
-Direction (!!)	275	273	321	110	158	123	227	072	228	225	229	254	227
-Speed (mph)	3.3	2.6	0.5	1.5	2.1	2.4	1.8	1.4	2.3	1.9	4.2	3.3	1.3
Average Speed (mph)	11.4	10.9	14.2	12.6	10.1	8.6	8.2	8.1	9.0	11.7	11.7	10.1	10.6
Fastest Obs. 1 Min.													
-Direction (!!)	29	31	15	23	26	36	25	35	27	22	24	27	15
-Speed (mph)	29	28	41	30	28	26	22	21	25	28	30	33	41
-Date	23	15	22	15	6	14	4	19	30	23	30	14	MAR 22
Peak Gust													
-Direction (!!)	W	NW	W	W	NE	N	W	NW	W	W	SW	SW	SW
-Speed (mph)	41	36	52	48	39	40	38	29	44	38	53	46	53
-Date	23	15	27	30	17	14	3	8	12	5	30	12	NOV 30

(!!) See Reference Notes on Page 68

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.3	23.4	33.8	47.9	59.1	68.9	73.0	71.3	63.3	52.1	37.5	24.8	47.8
Extremes														
-Record Highest	41	63	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	41	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1972	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	41	6.7	6.5	6.9	6.7	6.3	6.0	5.5	5.7	5.5	5.8	7.0	7.0	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	41	7.4	7.4	5.9	6.6	7.6	7.4	9.3	9.0	9.9	10.0	6.5	6.9	93.8
-Partly Cloudy	41	6.9	6.1	7.9	7.7	9.2	10.7	12.0	10.8	8.8	7.6	5.7	5.8	99.0
-Cloudy	41	16.7	14.7	17.3	15.7	14.2	12.0	9.8	11.2	11.3	13.4	17.8	18.4	172.4
Precipitation .01 inches or more	41	9.2	7.9	10.9	11.7	11.4	10.0	9.6	9.0	9.0	8.8	9.3	10.1	117.1
Snow,Ice pellets,hail 1.0 inches or more	41	2.7	2.3	2.0	0.4	0.*	0.0	0.0	0.0	0.0	0.*	0.8	2.9	11.1
Thunderstorms	41	0.1	0.4	2.0	4.2	5.7	7.7	7.8	6.2	4.8	2.5	1.1	0.4	42.9
Heavy Fog Visibility 1/4 mile or less	41	2.5	2.4	2.5	1.2	1.0	0.6	1.2	1.9	1.7	2.0	2.3	3.0	22.4
Temperature °F														
-Maximum														
90° and above	28	0.0	0.0	0.0	0.1	0.6	3.0	6.5	3.8	1.1	0.*	0.0	0.0	15.0
32° and below	28	19.4	14.2	4.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.0	14.2	55.7
-Minimum														
32° and below	28	29.5	26.3	23.0	8.9	1.3	0.0	0.0	0.0	0.5	7.2	19.6	27.8	144.1
0° and below	28	9.1	5.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.9	18.6
AVG. STATION PRESS.(mb)	19	991.3	991.7	988.5	987.9	987.6	987.9	989.3	990.4	990.9	991.1	990.2	991.3	989.8
RELATIVE HUMIDITY (%)														
Hour 00	28	78	78	78	74	76	78	83	86	85	81	80	81	80
Hour 06 (Local Time)	28	79	80	81	80	81	81	85	90	90	85	83	83	83
Hour 12	28	70	66	61	55	54	55	56	58	58	57	66	73	61
Hour 18	28	74	70	64	56	54	55	58	62	64	65	73	77	64
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	41	4.66	2.67	5.62	9.92	6.98	9.98	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1971	1961	1973	1974	1967	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	41	0.18	0.04	0.52	0.99	1.29	0.46	0.79	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1989	1988	1988	1991	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	41	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice pellets,hail														
-Maximum Monthly	41	26.1	19.5	22.7	7.7	1.0	0.0	T	T	0.0	2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966		1990	1990		1967	1951	1978	JAN 1979
-Maximum in 24 hrs	41	9.9	10.9	10.4	6.7	0.2	0.0	T	T	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1990		1990	1990		1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	41	10.6	10.7	11.7	11.8	10.5	9.4	8.1	7.8	8.5	9.6	10.6	10.5	10.0
Prevailing Direction through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	41	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (MPH)	41	40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR 1953
Peak Gust														
-Direction (!!!)	2			SW			NW							
-Speed (mph)	8	51	54	54	58	81	54	70	58	58	49	59	62	81
-Date		1988	1987	1990	1984	1988	1990	1984	1987	1988	1988	1988	1987	MAY 1988

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
1991	1.12	0.45	4.77	2.15	2.72	3.29	0.79	1.69	4.59	4.77	4.24	1.82	32.40
Record Mean	1.64	1.36	2.53	3.36	3.73	4.34	3.78	3.85	3.81	2.82	2.42	1.76	35.40

See Reference Notes on Page 6B.
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AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
1991	17.0	28.4	39.0	51.7	65.5	73.0	74.2	73.8	63.2	51.3	33.5	28.2	49.9
Record Mean	20.5	24.4	35.3	48.3	59.5	69.2	73.8	71.9	63.9	52.2	38.2	25.3	48.5
Record Max	29.1	33.0	44.6	59.3	71.3	80.7	85.5	83.3	75.5	63.4	47.0	33.1	58.8
Record Min	11.9	15.8	26.1	37.2	47.7	57.6	62.2	60.4	52.3	41.0	29.4	17.5	38.3

See Reference Notes on Page 6B.
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HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273	1483	1018	798	402	146	6	6413
1991-92	0	1	172	421	940	1134							

See Reference Notes on Page 6B.
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COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791
1991	0	0	0	8	169	254	292	281	126	4	0	0	1134

See Reference Notes on Page 6B.
Page 5B

SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0	15.3	2.8	6.9	T	0.0	0.0	36.7
1991-92	0.0	0.0	0.0	T	0.7	13.0							
Record Mean	T	T	0.0	0.1	2.7	9.4	8.6	6.8	6.4	1.4	T	0.0	35.3

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE DIFFERENCE BETWEEN THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE DIFFERENCE BETWEEN THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD, ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/?/72	10/?/93		42°17'	89°05'	720							3			Observer, T.D. Robertson.
731 North Court Street	11/?/93	12/?/12	.25 mi.WSW	42°17'	89°05'	720							3			Observer, H.C. Porter.
1135 North Court Street	1/?/13	6/01/18	.5 mi. NE	42°17'	89°05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/01/18	7/29/20	.5 mi. SW	42°17'	89°05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42°17'	89°05'	720		5					3			Observer, F.W. Knowlton and daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42°18'	89°06'	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42°12'	89°06'	728	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP Fed. Facilities Bldg.	11/05/58	Present	35 ft. E	42°12'	89°06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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1990 LOCAL CLIMATOLOGICAL DATA

ANNUAL SUMMARY WITH COMPARATIVE DATA

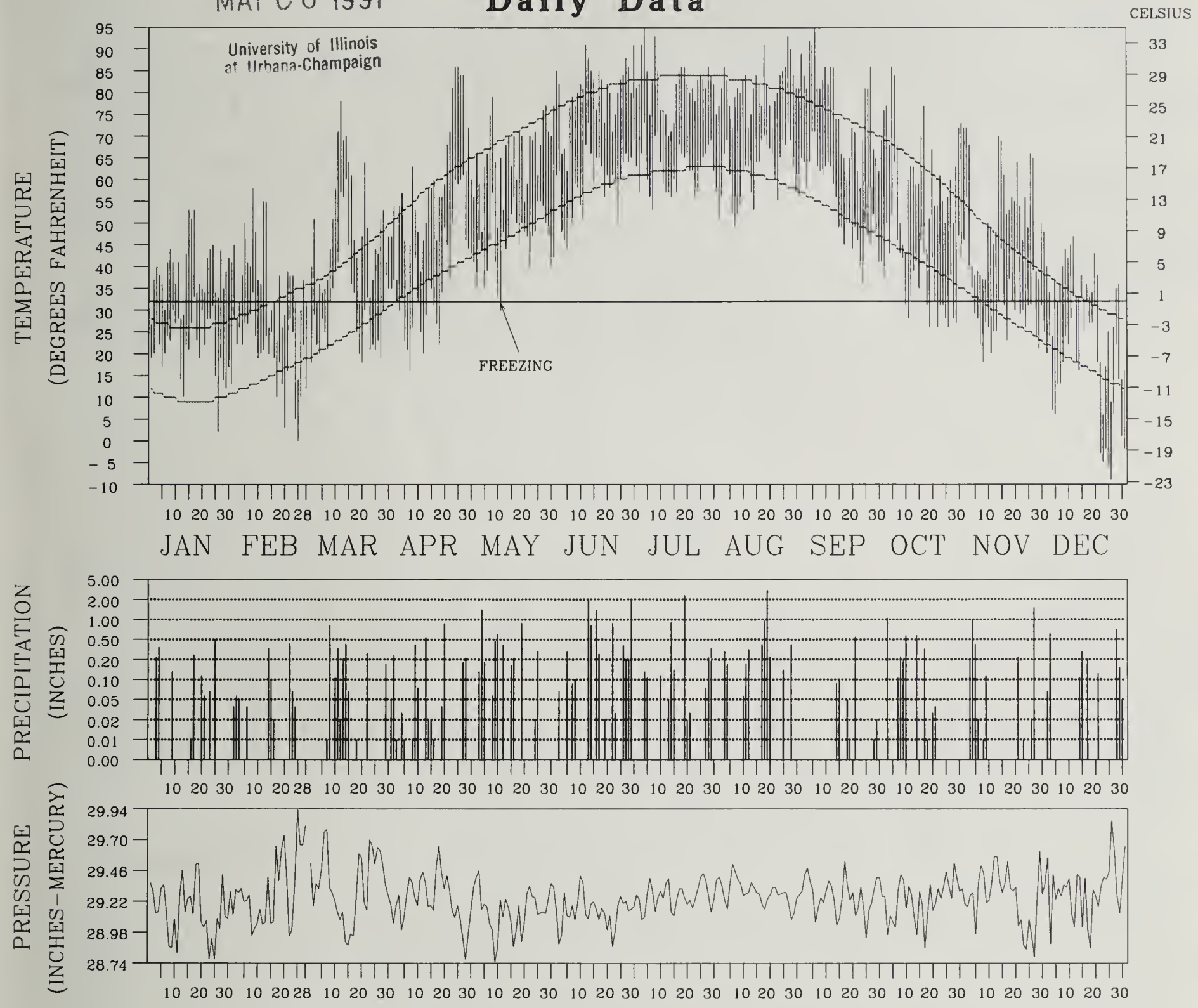
ROCKFORD,

ILLINOIS

The Library of the

MAY 06 1991

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D Hadeen

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1990

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	38.9	36.7	48.6	59.1	65.8	80.1	81.6	81.2	76.5	62.2	52.5	32.0	59.6
-Daily Minimum	21.2	19.6	31.2	36.9	45.6	59.3	62.3	61.6	54.2	37.7	31.0	15.4	39.7
-Monthly	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
-Monthly Dewpt.	24.7	20.7	29.2	36.0	45.0	58.9	61.4	62.5	55.2	39.3	33.5	18.7	40.4
Extremes													
-Highest	53	58	78	86	79	91	95	93	95	86	72	48	95
-Date	17	8	12	25	8	30	4	27	6	5	2	1	SEP 6
-Lowest	2	0	18	16	31	44	53	49	36	26	18	-9	-9
-Date	26	25	20	7	11	5	7	7	24	26	8	26	DEC 26
DEGREE DAYS BASE 65 °F:													
Heating	1074	1026	775	534	285	28	2	5	115	475	690	1273	6282
Cooling	0	0	3	32	3	173	225	210	132	13	0	0	791
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	5.9	6.4	6.8	6.6	6.8	7.2	6.7	5.6	5.3	5.3	6.5	6.3	6.3
Midnight - Midnight	5.6	6.0	6.6	6.0	6.7	6.6	6.0	5.3	4.6	4.7	6.0	6.2	5.9
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	7	8	7	8	4	6	9	9	11	8	9	94
-Partly Cloudy	11	7	5	8	5	8	9	12	13	9	6	5	98
-Cloudy	12	14	18	15	18	18	16	10	8	11	16	17	173
Precipitation .01 inches or more	9	10	12	15	12	15	12	11	7	10	10	9	132
Snow, Ice pellets 1.0 inches or more	1	3	0	0	0	0	0	0	0	0	0	3	7
Thunderstorms	1	0	4	1	7	13	7	9	4	3	1	0	50
Heavy Fog, visibility 1/4 mile or less	2	1	4	2	2	2	0	2	3	0	4	4	26
Temperature °F													
-Maximum													
90° and above	0	0	0	0	0	2	3	3	3	0	0	0	11
32° and below	4	12	2	0	0	0	0	0	0	0	0	10	28
-Minimum													
32° and below	30	27	18	13	1	0	0	0	0	12	22	29	152
0° and below	0	1	0	0	0	0	0	0	0	0	0	6	7
AVG. STATION PRESS. (mb)	987.1	992.6	993.6	989.8	987.3	986.8	990.9	991.9	990.9	990.0	990.5	992.6	990.2
RELATIVE HUMIDITY (%)													
Hour 00	85	79	74	76	78	82	81	88	84	80	78	83	81
Hour 06 (Local Time)	85	82	79	81	81	82	84	91	89	84	83	85	84
Hour 12	72	64	60	54	59	64	59	61	57	55	61	76	62
Hour 18	78	71	62	52	60	60	63	66	66	65	71	79	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
-Greatest (24 hrs)	0.63	0.46	0.88	0.91	1.64	2.94	2.71	4.12	0.57	1.09	1.61	0.90	4.12
-Date	3- 4	14-15	7- 8	20	3- 4	13-14	19-20	18-19	21	3	26-27	28-29	AUG 18-19
Snow, Ice pellets													
-Total	9.4	12.0	0.3	0.2	0.2	0.0	T	T	0.0	T	0.7	11.0	33.8
-Greatest (24 hrs)	8.2	7.5	0.3	0.2	0.2	0.0	T	T	0.0	T	0.7	7.6	8.2
-Date	25	14-15	18-19	2	10		19	28		10	9	2- 3	JAN 25
WIND:													
Resultant													
-Direction (!!!)	237	277	209	246	051	228	129	158	271	227	230	249	230
-Speed (mph)	4.2	1.0	1.7	4.0	1.1	3.7	1.0	1.4	0.6	2.9	4.6	2.7	2.0
Average Speed (mph)	10.2	11.0	11.6	10.5	10.8	9.5	7.7	6.5	7.1	10.0	11.2	11.7	9.8
Fastest Obs. 1 Min.													
-Direction (!!!)	29	33	22	18	28	30	36	34	30	22	29	06	06
-Speed (mph)	32	35	35	32	35	35	29	22	23	33	32	35	35
-Date	27	24	15	27	17	29	19	28	22	3	23	3	DEC 3
Peak Gust													
-Direction (!!!)	W	NW	SW	S	W	NW	NW	NW	NW	SW	NW	E	NW
-Speed (mph)	46	47	54	53	48	54	46	37	32	48	48	52	54
-Date	23	24	15	27	17	29	18	28	22	3	23	3	JUN 29

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.3	23.4	33.8	47.9	59.1	68.9	73.0	71.3	63.3	52.1	37.5	24.8	47.8
Extremes														
-Record Highest	40	63	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	40	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1972	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	40	6.7	6.5	6.9	6.6	6.3	6.0	5.6	5.7	5.5	5.8	7.0	7.0	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	40	7.4	7.5	5.9	6.6	7.6	7.3	9.4	9.0	10.0	10.1	6.6	6.9	94.2
-Partly Cloudy	40	6.9	6.0	7.8	7.8	9.1	10.6	11.9	10.8	8.7	7.6	5.6	5.7	98.6
-Cloudy	40	16.7	14.8	17.3	15.6	14.3	12.1	9.8	11.2	11.3	13.4	17.8	18.4	172.4
Precipitation														
.01 inches or more	40	9.2	8.0	10.9	11.8	11.4	10.1	9.7	9.1	8.9	8.6	9.3	10.1	117.0
Snow,Ice pellets														
1.0 inches or more	40	2.7	2.3	2.0	0.4	0.*	0.0	0.0	0.0	0.0	0.1	0.9	2.8	11.2
Thunderstorms	40	0.1	0.4	1.9	4.1	5.7	7.7	7.9	6.3	4.8	2.5	1.1	0.4	42.8
Heavy Fog Visibility														
1/4 mile or less	40	2.5	2.4	2.4	1.2	1.0	0.6	1.2	1.9	1.7	2.0	2.3	3.0	22.4
Temperature °F														
-Maximum														
90° and above	27	0.0	0.0	0.0	0.1	0.6	2.8	6.4	3.5	1.1	0.*	0.0	0.0	14.5
32° and below	27	19.1	14.4	4.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.5	55.9
-Minimum														
32° and below	27	29.5	26.3	23.1	9.1	1.3	0.0	0.0	0.0	0.5	7.2	19.4	27.8	144.2
0° and below	27	9.1	5.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.0	18.9
AVG. STATION PRESS.(mb)	18	991.1	991.7	988.7	987.8	987.4	987.7	989.3	990.3	990.8	991.2	990.1	991.2	989.8
RELATIVE HUMIDITY (%)														
Hour 00	27	78	78	78	75	76	78	83	87	86	81	80	81	80
Hour 06 (Local Time)	27	79	80	81	80	80	81	85	90	90	85	83	83	83
Hour 12	27	70	66	61	55	53	55	56	59	58	57	66	73	61
Hour 18	27	74	70	64	56	54	55	58	63	65	64	73	77	64
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	40	4.66	2.67	5.62	9.92	6.98	9.98	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1971	1961	1973	1974	1967	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	40	0.18	0.04	0.52	0.99	1.29	0.46	1.14	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1989	1988	1988	1981	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	40	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice pellets														
-Maximum Monthly	40	26.1	19.5	22.7	7.7	1.0	0.0	T	T	0.0	2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966		1990	1990		1967	1951	1978	JAN 1979
-Maximum in 24 hrs	40	9.9	10.9	10.4	6.7	0.2	0.0	T	T	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1990		1990	1990		1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	40	10.6	10.7	11.7	11.8	10.5	9.4	8.1	7.8	8.5	9.5	10.6	10.5	10.0
Prevailing Direction														
through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	40	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (MPH)	40	40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR 1953
Peak Gust														
-Direction (!!!)	1			SW			NW							
-Speed (mph)	7	51	54	54	58	81	54	70	58	58	49	59	62	81
-Date		1988	1987	1990	1984	1988	1990	1984	1987	1988	1988	1988	1987	MAY 1988

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
1990	1.83	1.23	2.65	2.83	5.10	9.24	4.93	6.73	0.85	3.31	3.64	2.45	44.79
Record Mean	1.64	1.37	2.51	3.37	3.75	4.35	3.81	3.87	3.81	2.80	2.40	1.76	35.44

See Reference Notes on Page 6B.
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AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
1990	30.1	28.2	39.9	48.0	55.7	69.7	72.0	71.4	65.4	50.0	41.8	23.7	49.7
Record Mean	20.6	24.4	35.3	48.2	59.4	69.1	73.8	71.9	63.9	52.2	38.3	25.3	48.5
Max	29.2	33.0	44.5	59.3	71.2	80.6	85.5	83.3	75.5	63.4	47.1	33.1	58.8
Min	12.0	15.7	26.1	37.1	47.6	57.5	62.2	60.4	52.3	41.0	29.5	17.4	38.2

See Reference Notes on Page 6B.
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HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570	1074	1026	775	534	285	28	6750
1990-91	2	5	115	475	690	1273							

See Reference Notes on Page 6B.
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COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704
1990	0	0	3	32	3	173	225	210	132	13	0	0	791

See Reference Notes on Page 6B.
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SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6	9.4	12.0	0.3	0.2	0.2	0.0	34.7
1990-91	T	T	0.0	T	0.7	11.0							
Record Mean	T	T	0.0	0.1	2.7	9.3	8.4	6.9	6.4	1.4	T	0.0	35.2

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD, ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
COOPERATIVE																
900 Block, North Main	12/?/72	10/?/93		42°17'	89°05'	720							3			Observer, T.D. Robertson.
731 North Court Street	11/?/93	12/?/12	.25 mi.WSW	42°17'	89°05'	720							3			Observer, H.C. Porter.
1135 North Court Street	1/?/13	6/01/18	.5 mi. NE	42°17'	89°05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/01/18	7/29/20	.5 mi. SW	42°17'	89°05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42°17'	89°05'	720		5					3			Observer, F.W. Knowlton and daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42°18'	89°06'	740		5					3			New residence.
AIRPORT																
Greater Rockford AP Fed. Facilities Bldg. 4.7 miles south of P.O.	12/19/50	11/04/58		42°12'	89°06'	728	33	5	5				3			Observations by CAA personnel.
Greater Rockford AP Fed. Facilities Bldg.	11/05/58	Present	35 ft. E	42°12'	89°06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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1989 LOCAL CLIMATOLOGICAL DATA

ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD,
ILLINOIS

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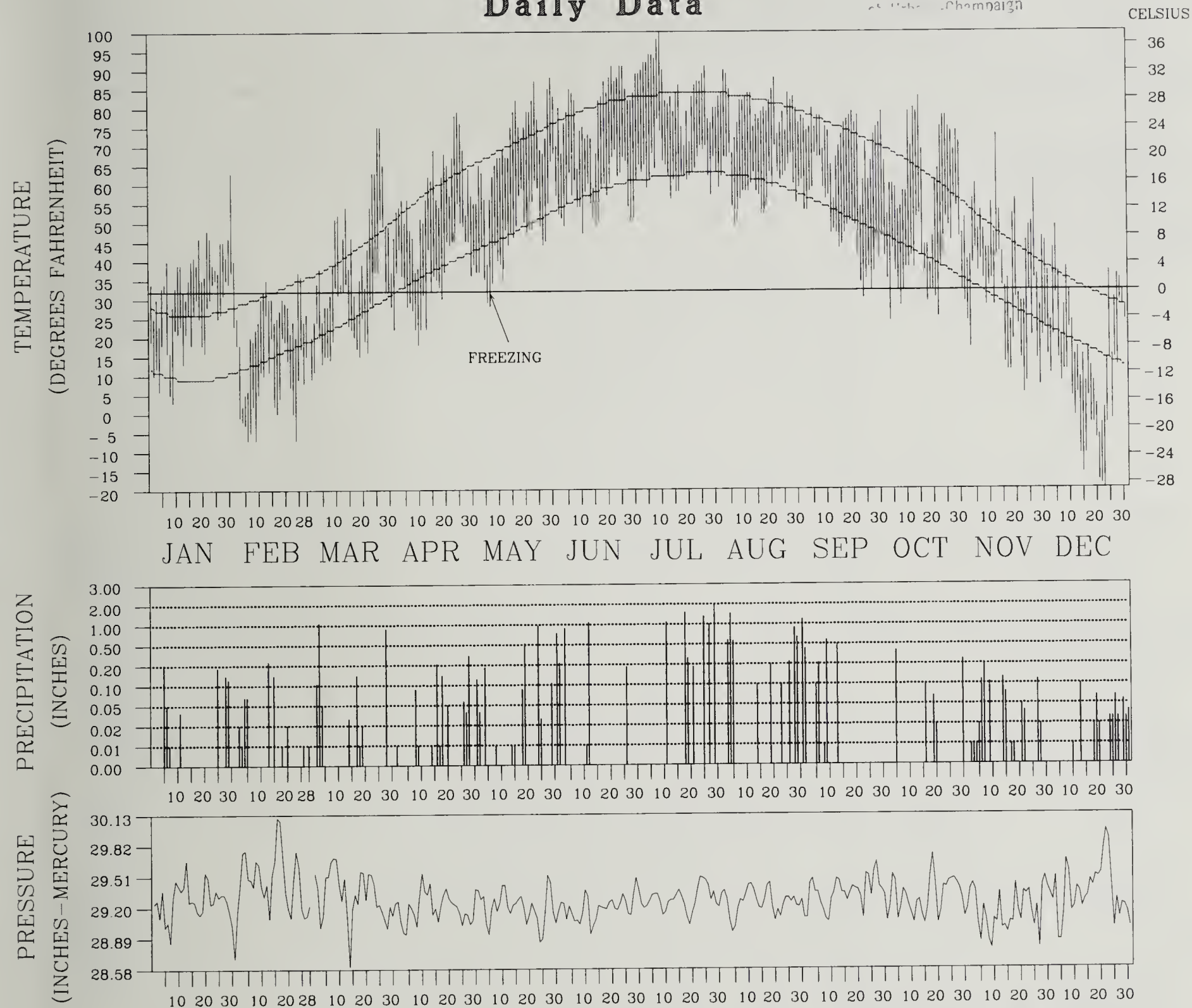

TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1989

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	37.3	24.6	42.7	57.9	70.3	79.5	85.4	80.4	72.2	64.5	45.2	22.5	56.9
-Daily Minimum	22.4	7.5	25.2	35.8	46.1	56.9	63.9	59.7	48.8	39.1	25.5	5.9	36.4
-Monthly	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
-Monthly Dewpt.	23.9	9.0						63.4	51.3	40.9	27.3	7.4	
Extremes													
-Highest	63	40	75	79	88	91	100	90	80	83	73	49	100
-Date	31	1	27	25	30	26	10	3	5	15	13	5	JUL 10
-Lowest	3	-7	9	18	28	47	56	49	30	24	5	-20	-20
-Date	9	24	1	10	7	11	14	7	24	4	23	23	DEC 23
DEGREE DAYS BASE 65 °F:													
Heating	1081	1364	954	537	246	36	0	10	164	403	881	1570	7246
Cooling	0	0	0	2	43	138	308	173	37	3	0	0	704
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.3	6.5	7.6	7.5	5.9	6.2	5.8	6.0	4.0	5.6	7.6	6.0	6.3
Midnight - Midnight	5.6	6.2						5.1	3.9	4.9	7.1	6.1	
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	8	3	3	8	8	9	10	16	12	4	9	98
-Partly Cloudy	9	6	9	8	8	8	10	10	7	5	5	8	93
-Cloudy	14	14	19	19	15	14	12	11	7	14	21	14	174
Precipitation .01 inches or more	7	10	8	11	12	5	7	10	6	5	15	12	108
Snow, Ice pellets 1.0 inches or more	0	4	1	1	0	0	0	0	0	0	1	3	10
Thunderstorms	0	0	3	1	1	5	6	5	3	2	1	0	27
Heavy Fog, visibility 1/4 mile or less	6	0	1	1	1	2	3	3	1	1	0	1	20
Temperature °F													
-Maximum													
90° and above	0	0	0	0	0	3	10	1	0	0	0	0	14
32° and below	7	24	8	0	0	0	0	0	0	0	5	22	66
-Minimum													
32° and below	26	28	25	11	2	0	0	0	2	10	19	31	154
0° and below	0	9	0	0	0	0	0	0	0	0	0	12	21
AVG. STATION PRESS. (mb)	990.5	998.0						990.2	993.6	991.9	987.1	993.2	
RELATIVE HUMIDITY (%)													
Hour 00	79							94	87	82	78	78	
Hour 06 (Local Time)	83	81	84	84	83	88	87	95	94	86	80	82	86
Hour 12	71	65	69	55	54	57	57	65	56	53	64	66	61
Hour 18	80	69	72	56	54	57	61	69	65	64	71	73	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
-Greatest (24 hrs)	0.28	0.26	1.16	0.38	1.01	1.13	2.00	1.77	1.68	0.40	0.32	0.10	2.00
-Date	28-29	13	3- 4	27-28	24-25	11-12	29	4- 5	PM- 1	5	6- 7	26-27	JUL 29
Snow, Ice pellets													
-Total	1.3	13.3	4.2	1.5	T	0.0	0.0	0.0	0.0	1.0	3.0	8.6	32.9
-Greatest (24 hrs)	1.1	4.4	3.0	1.0	T	0.0	0.0	0.0	0.0	1.0	1.9	2.0	4.4
-Date	5- 6	13	2	18	6					19-20	21-22	13-14	FEB 13
WIND:													
Resultant													
-Direction (!!!)	233	308						195	147	247	266	288	
-Speed (mph)	5.2	4.5						1.7	0.5	2.0	3.8	3.8	
Average Speed (mph)	12.4	11.4						7.5	6.7	8.9	10.6	9.2	
Fastest Obs. 1 Min.													
-Direction (!!!)	26	30						19	33	18	30	32	
-Speed (mph)	30	26						32	28	23	26	26	
-Date	8	8						3	22	30	20	25	
Peak Gust													
-Direction (!!!)								S	N	S	NW	N	
-Speed (mph)	47	39	37	37	52	40	45	54	41	37	39	41	54
-Date	8	8	6	26	24	26	11	3	22	11	20	25	AUG 3

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.3	23.4	33.8	47.9	59.1	68.9	73.0	71.3	63.3	52.1	37.5	24.8	47.8
Extremes														
-Record Highest	39	63	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1989	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	39	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1972	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	39	6.7	6.5	6.9	6.6	6.3	6.0	5.5	5.7	5.5	5.8	7.0	7.0	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	39	7.4	7.5	5.8	6.6	7.6	7.4	9.4	9.0	10.1	10.1	6.6	6.8	94.2
-Partly Cloudy	39	6.8	6.0	7.9	7.8	9.2	10.7	11.9	10.8	8.6	7.5	5.6	5.7	98.6
-Cloudy	39	16.8	14.8	17.2	15.6	14.2	11.9	9.6	11.2	11.4	13.4	17.8	18.4	172.4
Precipitation .01 inches or more	39	9.2	7.9	10.8	11.7	11.3	9.9	9.7	9.1	9.0	8.6	9.2	10.2	116.6
Snow,Ice pellets 1.0 inches or more	39	2.7	2.3	2.1	0.4	0.*	0.0	0.0	0.0	0.0	0.1	0.9	2.8	11.3
Thunderstorms	39	0.1	0.4	1.8	4.2	5.6	7.6	8.0	6.2	4.8	2.4	1.1	0.4	42.6
Heavy Fog Visibility 1/4 mile or less	39	2.5	2.4	2.4	1.2	1.0	0.6	1.3	1.9	1.7	2.1	2.3	2.9	22.3
Temperature °F														
-Maximum														
90° and above	26	0.0	0.0	0.0	0.1	0.6	2.8	6.5	3.5	1.0	0.*	0.0	0.0	14.6
32° and below	26	19.7	14.5	5.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.7	57.0
-Minimum														
32° and below	26	29.5	26.3	23.3	9.0	1.3	0.0	0.0	0.0	0.5	7.0	19.3	27.7	143.9
0° and below	26	9.5	5.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.9	19.3
AVG. STATION PRESS.(mb)	17	991.4	991.7	988.4	987.7	987.5	987.8	989.2	990.2	990.8	991.3	990.1	991.1	989.8
RELATIVE HUMIDITY (%)														
Hour 00	26	78	78	78	74	76	77	83	87	86	81	80	81	80
Hour 06 (Local Time)	26	79	80	81	80	80	81	86	90	90	85	83	83	83
Hour 12	26	70	66	61	55	53	54	56	59	58	57	66	72	61
Hour 18	26	74	70	65	56	54	54	58	63	65	64	73	77	64
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	39	4.66	2.67	5.62	9.92	6.98	9.98	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1971	1961	1973	1974	1967	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	39	0.18	0.04	0.52	0.99	1.29	0.46	1.14	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1989	1988	1988	1981	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	39	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice pellets														
-Maximum Monthly	39	26.1	19.5	22.7	7.7	1.0	0.0	0.0	0.0	0.0	2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966					1967	1951	1978	JAN 1979
-Maximum in 24 hrs	39	9.9	10.9	10.4	6.7	T	0.0	0.0	0.0	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1989					1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	39	10.6	10.6	11.7	11.9	10.5	9.4	8.1	7.8	8.6	9 5	10.5	10.5	10.0
Prevailing Direction through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	39	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (MPH)	39	40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR 1953
Peak Gust														
-Direction (!!!)														
-Speed (mph)		51	54	53	58	81	52	70	58	58	49	59	62	81
-Date		1988	1987	1985	1984	1988	1985	1984	1987	1988	1988	1988	1987	MAY 1988

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
1989	0.79	0.63	2.41	0.99	2.93	2.46	7.61	6.23	1.86	0.86	0.94	0.51	28.22
Record Mean	1.64	1.37	2.50	3.38	3.73	4.30	3.80	3.84	3.84	2.79	2.39	1.75	35.32

See Reference Notes on Page 6B.
Page 4A

AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
1989	29.9	16.1	34.0	46.9	58.2	68.2	74.7	70.1	60.5	51.8	35.4	14.2	46.7
Record Mean	20.5	24.3	35.3	48.2	59.5	69.1	73.8	71.9	63.9	52.3	38.3	25.3	48.5
Max	29.0	32.9	44.5	59.3	71.3	80.6	85.5	83.3	75.5	63.4	47.0	33.1	58.8
Min	11.9	15.7	26.0	37.1	47.6	57.5	62.2	60.4	52.3	41.1	29.5	17.5	38.2

See Reference Notes on Page 6B.
Page 4B

HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
# 1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193	1081	1364	954	537	246	36	6845
1989-90	0	10	164	403	881	1570							

See Reference Notes on Page 6B.
Page 5A

COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094
1989	0	0	0	2	43	138	308	173	37	3	0	0	704

See Reference Notes on Page 6B.
Page 5B

SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8	1.3	13.3	4.2	1.5	T	0.0	33.7
1989-90	0.0	0.0	0.0	1.0	3.0	8.6							
Record Mean	0.0	0.0	0.0	0.1	2.8	9.3	8.4	6.7	6.5	1.4	T	0.0	35.3

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD, ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801

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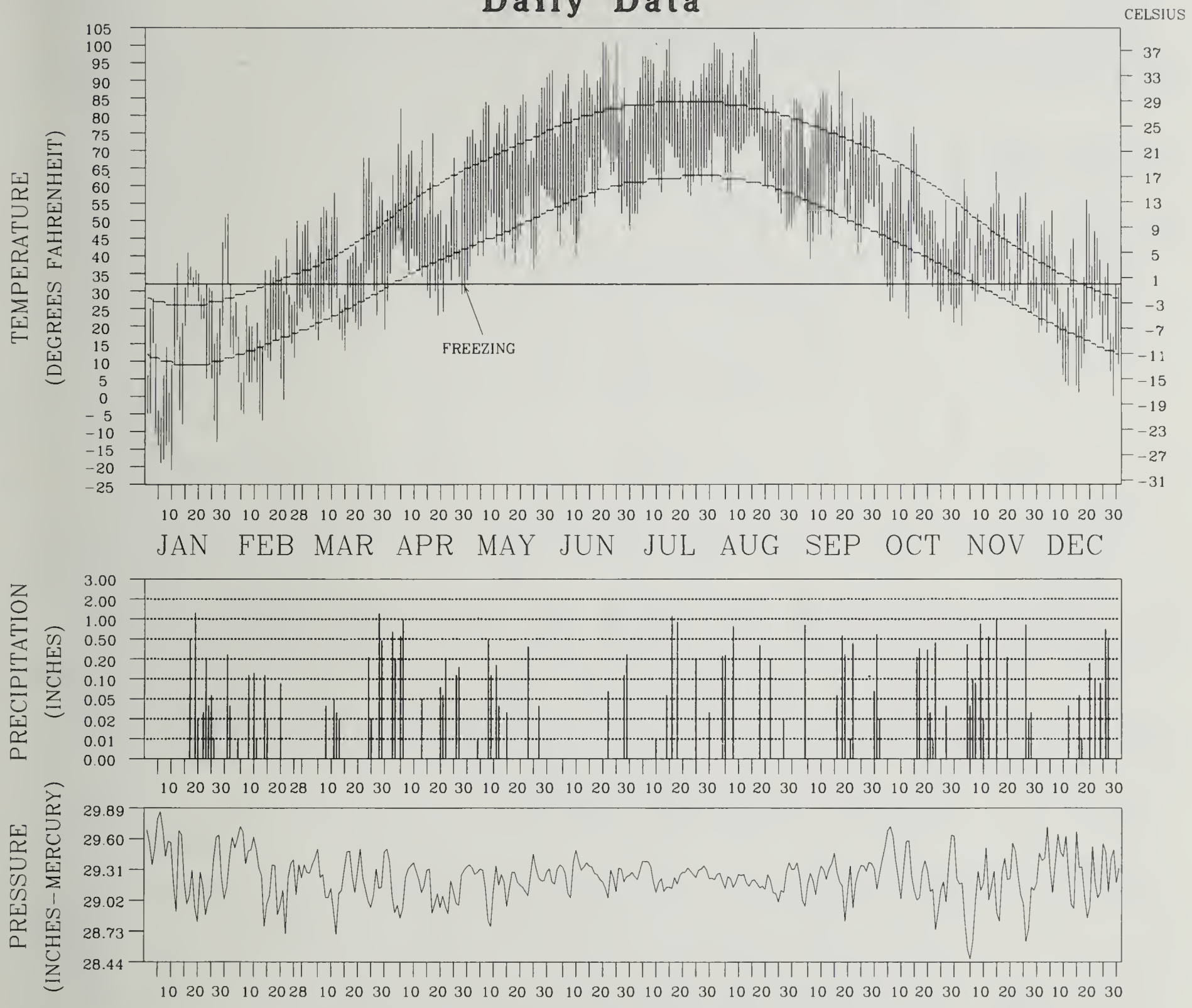
1988 LOCAL CLIMATOLOGICAL DATA

ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD,
ILLINOIS

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

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Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1988

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	24.8	28.5	47.0	59.6	77.4	86.2	90.1	88.0	78.3	55.9	47.4	35.5	59.9
-Daily Minimum	7.2	10.9	25.4	35.7	47.5	56.4	63.0	64.7	52.3	34.5	31.8	17.1	37.2
-Monthly	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
-Monthly Dewpt.	10.4	12.3	26.1	33.6	45.6	52.8	60.6	62.5	52.5	34.1	33.3	18.6	36.9
Extremes													
-Highest	52	50	68	82	92	101	102	104	93	77	64	56	104
-Date	31	26	24	5	31	25	15	16	17	15	15	19	AUG 16
-Lowest	-21	-7	13	23	36	40	52	47	39	21	20	0	-21
-Date	10	13	15	19	25	10	3	28	6	30	2	29	JAN 10
DEGREE DAYS BASE 65 °F:													
Heating	1513	1308	887	514	131	23	0	8	66	605	755	1193	7003
Cooling	0	0	0	0	58	221	365	369	81	0	0	0	1094
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.5	5.4	7.1	6.0	4.3	4.6	4.6	4.4	6.0	5.2	7.5	5.3	5.6
Midnight - Midnight	6.2	4.9	6.7	5.5	4.2	3.9	3.9	4.0	5.4	4.5	7.8	5.3	5.2
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	9	12	7	9	15	11	13	18	9	9	4	10	126
-Partly Cloudy	4	7	6	8	11	12	9	5	9	13	7	11	102
-Cloudy	18	10	18	13	5	7	9	8	12	9	19	10	138
Precipitation .01 inches or more	9	8	8	10	8	3	6	6	7	9	12	8	94
Snow,Ice pellets 1.0 inches or more	2	3	1	0	0	0	0	0	0	0	0	1	7
Thunderstorms	0	0	3	4	7	2	5	4	2	3	4	1	35
Heavy Fog, visibility 1/4 mile or less	2	1	1	2	0	0	1	0	0	0	0	2	9
Temperature °F													
-Maximum													
90° and above	0	0	0	0	2	10	19	14	1	0	0	0	46
32° and below	22	18	4	0	0	0	0	0	0	0	1	14	59
-Minimum													
32° and below	29	29	26	7	0	0	0	0	0	13	18	30	152
0° and below	13	5	0	0	0	0	0	0	0	0	0	1	19
AVG. STATION PRESS. (mb)	992.9	992.2	989.2	986.1	988.8	990.9	990.5	988.7	989.8	991.5	984.8	992.6	989.8
RELATIVE HUMIDITY (%)													
Hour 00	81	78	78	72	67	66	74	81	82	78	85	76	77
Hour 06 (Local Time)	80	78	81	77	73	69	82	87	88	86	86	82	81
Hour 12	70	63	56	51	42	39	44	49	51	52	71	65	54
Hour 18	76	69	58	50	44	39	43	52	56	59	79	74	58
PRECIPITATION (inches):													
Water Equivalent													
-Total	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
-Greatest (24 hrs)	1.33	0.14	1.34	1.56	0.61	0.39	1.16	0.82	0.85	0.62	0.98	1.16	1.56
-Date	19-20	14-15	28-29	5- 6	8- 9	28-29	16	8	4	1	15	26-27	APR 5- 6
Snow,Ice pellets													
-Total	8.7	9.9	3.4	0.7	0.0	0.0	0.0	0.0	0.0	T	1.6	11.8	36.1
-Greatest (24 hrs)	3.7	4.9	2.8	0.4	0.0	0.0	0.0	0.0	0.0	T	0.8	9.5	9.5
-Date	23-24	10	29	27						23	6	26	DEC 26
WIND:													
Resultant													
-Direction (!!!)	240	297	255	341	124	169	202	223	202	276	231	255	250
-Speed (mph)	4.6	5.2	2.4	2.7	2.1	0.7	1.5	2.9	2.5	5.4	5.0	4.7	2.4
Average Speed (mph)	11.2	12.1	12.2	11.5	10.2	10.2	7.6	9.1	9.4	10.3	12.7	11.6	10.7
Fastest Obs. 1 Min.													
-Direction (!!!)	27	19	29	34	27	06	20	19	25	18	20	12	27
-Speed (mph)	35	29	30	31	52	24	22	25	29	33	37	28	52
-Date	12	7	25	6	8	8	15	13	20	27	15	26	MAY 8
Peak Gust													
-Direction (!!!)													
-Speed (mph)	51	37	45	47	81	37	45	55	58	49	59	49	81
-Date	12	7	24	6	8	19	16	8	19	27	15	23	MAY 8

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.3	23.4	33.8	47.9	59.1	68.9	73.0	71.3	63.3	52.1	37.5	24.8	47.8
Extremes														
-Record Highest	38	60	68	85	91	95	101	103	104	102	90	76	66	104
-Year		1967	1976	1986	1980	1975	1988	1955	1988	1953	1971	1961	1984	AUG 1988
-Record Lowest	38	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1972	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	38	6.7	6.5	6.9	6.6	6.3	6.0	5.5	5.7	5.5	5.8	7.0	7.1	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	38	7.4	7.5	5.9	6.7	7.6	7.4	9.4	8.9	9.9	10.0	6.6	6.8	94.1
-Partly Cloudy	38	6.7	6.0	7.9	7.8	9.2	10.8	12.0	10.8	8.6	7.6	5.6	5.7	98.7
-Cloudy	38	16.9	14.8	17.2	15.5	14.2	11.8	9.6	11.2	11.5	13.4	17.7	18.6	172.4
Precipitation .01 inches or more	38	9.3	7.9	10.9	11.7	11.3	10.1	9.7	9.1	9.1	8.7	9.1	10.1	116.8
Snow,Ice pellets 1.0 inches or more	38	2.8	2.2	2.1	0.4	0.*	0.0	0.0	0.0	0.0	0.1	0.9	2.8	11.3
Thunderstorms	38	0.1	0.4	1.8	4.3	5.8	7.7	8.0	6.2	4.8	2.4	1.1	0.4	43.1
Heavy Fog Visibility 1/4 mile or less	38	2.4	2.5	2.4	1.2	1.0	0.6	1.2	1.9	1.7	2.1	2.3	3.0	22.3
Temperature °F														
-Maximum														
90° and above	25	0.0	0.0	0.0	0.1	0.6	2.8	6.4	3.6	1.0	0.*	0.0	0.0	14.6
32° and below	25	20.2	14.2	4.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.4	56.6
-Minimum														
32° and below	25	29.6	26.2	23.2	8.9	1.3	0.0	0.0	0.0	0.4	6.9	19.4	27.6	143.5
0° and below	25	9.8	5.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	19.3
AVG. STATION PRESS.(mb)	16	991.4	991.3	988.4	987.7	987.5	987.8	989.2	990.2	990.6	991.2	990.3	991.0	989.7
RELATIVE HUMIDITY (%)														
Hour 00	25	78	78	78	74	76	77	83	86	86	81	81	81	80
Hour 06 (Local Time)	25	79	80	81	80	80	80	85	90	90	85	83	83	83
Hour 12	25	70	66	61	55	53	54	56	58	58	57	66	73	61
Hour 18	25	74	70	64	56	54	54	58	62	64	64	73	77	64
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	38	4.66	2.67	5.62	9.92	6.98	9.98	11.81	13.55	10.68	8.32	5.51	5.04	13.55
-Year		1960	1971	1961	1973	1974	1967	1952	1987	1961	1969	1985	1971	AUG 1987
-Minimum Monthly	38	0.18	0.04	0.52	1.10	1.29	0.46	1.14	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1985	1988	1988	1981	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	38	2.89	1.73	2.50	5.55	3.61	4.15	5.03	6.42	5.56	5.22	3.20	2.24	6.42
-Year		1960	1966	1976	1973	1977	1969	1952	1987	1961	1954	1961	1971	AUG 1987
Snow,Ice pellets														
-Maximum Monthly	38	26.1	19.5	22.7	7.7	1.0	0.0	0.0	0.0	0.0	2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966					1967	1951	1978	JAN 1979
-Maximum in 24 hrs	38	9.9	10.9	10.4	6.7	T	0.0	0.0	0.0	0.0	2.2	9.5	11.4	11.4
-Year		1979	1960	1972	1970	1976					1967	1951	1987	DEC 1987
WIND:														
Mean Speed (mph)	38	10.5	10.6	11.7	11.9	10.5	9.4	8.1	7.9	8.6	9.5	10.5	10.5	10.0
Prevailing Direction through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	38	27	25	25	11	27	30	30	26	20	29	20	06	11
-Speed (MPH)	38	40	45	46	54	52	46	53	48	52	37	46	46	54
-Year		1980	1953	1953	1953	1988	1974	1984	1965	1961	1980	1961	1987	APR 1953
Peak Gust														
-Direction (!!!)														
-Speed (mph)		51	54	53	58	81	52	70	58	58	49	59	62	81
-Date		1988	1987	1985	1984	1988	1985	1984	1987	1988	1988	1988	1987	MAY 1988

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
1987	0.93	0.82	1.96	1.98	3.73	3.08	5.02	13.55	2.38	0.82	2.57	4.03	40.87
1988	2.45	0.54	2.15	3.14	1.29	0.46	2.39	1.96	2.29	2.10	4.25	1.75	24.77
Record Mean	1.65	1.38	2.51	3.41	3.74	4.32	3.75	3.81	3.86	2.81	2.40	1.76	35.41

See Reference Notes on Page 6B.
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AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
1987	23.1	32.4	39.5	51.1	63.9	72.5	76.3	70.8	62.8	44.7	41.6	29.4	50.7
1988	16.0	19.7	36.2	47.7	62.5	71.3	76.6	76.4	65.3	45.2	39.6	26.3	48.6
Record Mean	20.3	24.4	35.3	48.2	59.5	69.1	73.9	71.9	64.0	52.3	38.3	25.4	48.5
Max	28.9	33.0	44.5	59.3	71.3	80.6	85.6	83.3	75.6	63.4	47.0	33.2	58.8
Min	11.7	15.8	26.0	37.1	47.6	57.5	62.2	60.4	52.3	41.1	29.5	17.6	38.3

See Reference Notes on Page 6B.
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HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135	1290	905	781	418	143	11	6162
1987-88	2	32	108	623	695	1096	1513	1308	887	514	131	23	6932
1988-89	0	8	66	605	755	1193							

See Reference Notes on Page 6B.
Page 5A

COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744
1987	0	0	0	8	118	244	358	220	47	0	0	0	995
1988	0	0	0	0	58	221	365	369	81	0	0	0	1094

See Reference Notes on Page 6B.
Page 5B

SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0	9.5	T	2.8	T	0.0	0.0	19.3
1987-88	0.0	0.0	0.0	T	0.6	21.7	8.7	9.9	3.4	0.7	0.0	0.0	45.0
1988-89	0.0	0.0	0.0	T	1.6	11.8							
Record Mean	0.0	0.0	0.0	0.1	2.8	9.3	8.6	6.6	6.6	1.4	T	0.0	35.3

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE B.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD, ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB

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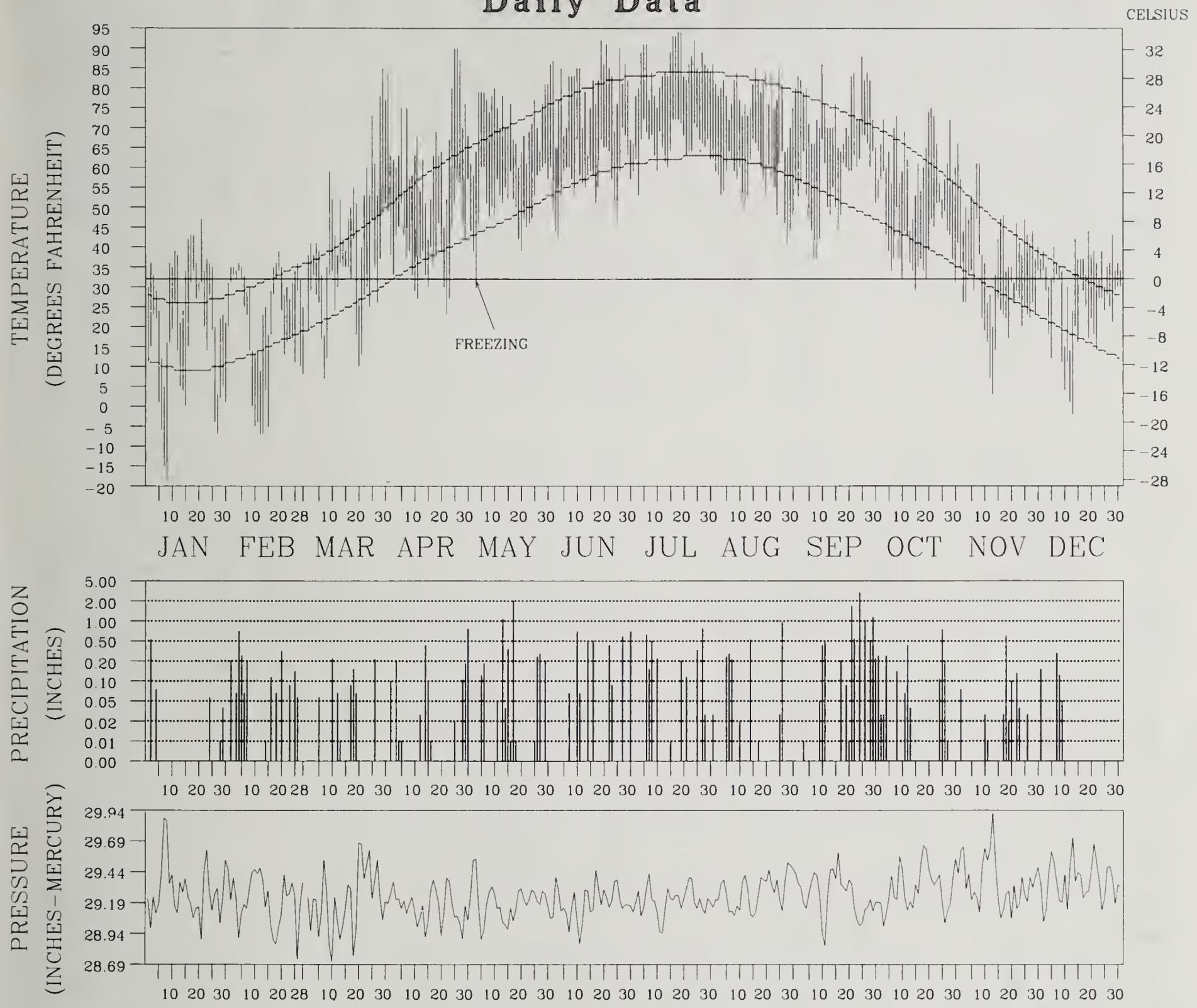
LOCAL CLIMATOLOGICAL DATA

ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD,
ILLINOIS

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

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Kenneth D Wadell
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noaa

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METEOROLOGICAL DATA FOR 1986

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	29.5	28.6	50.2	64.8	71.9	79.5	84.9	77.8	74.5	61.8	41.8	34.3	58.3
-Daily Minimum	12.3	16.3	29.8	39.6	50.9	57.5	65.6	56.4	55.2	41.6	24.9	21.9	39.3
-Monthly	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
-Monthly Dewpt.	17.6	18.9	30.8	38.0	50.6	58.8	66.5	57.2	57.1	44.7	26.0	23.1	40.8
Extremes													
-Highest	47	39	85	90	86	92	94	85	88	75	61	44	94
-Date	21	19	29	26	31	19	19	25	25	21	8	19	JUL 19
-Lowest	-19	-7	7	23	31	42	53	41	37	29	3	-2	-19
-Date	8	13	7	22	3	3	3	28	8	15	13	13	JAN 8
DEGREE DAYS BASE 65 °F:													
Heating	1362	1187	771	397	138	35	2	42	91	402	942	1135	6504
Cooling	0	0	4	22	35	148	329	113	92	1	0	0	744
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.0	7.5	6.9	6.5	7.5	6.1	5.5	6.0	7.8	6.7	6.8	8.1	6.9
Midnight - Midnight	6.6	7.6	7.0	6.2	7.0	5.9	5.1	5.6	7.1	6.2	6.7	7.4	6.5
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	6	3	9	6	4	8	10	8	4	8	5	3	74
-Partly Cloudy	7	7	2	9	7	9	9	11	6	6	7	6	86
-Cloudy	18	18	20	15	20	13	12	12	20	17	18	22	205
Precipitation .01 inches or more	5	13	8	12	13	9	11	8	14	12	10	4	119
Snow,Ice pellets 1.0 inches or more	2	6	0	1	0	0	0	0	0	0	2	1	12
Thunderstorms	0	0	1	3	6	6	10	3	9	1	0	0	39
Heavy Fog, visibility 1/4 mile or less	0	5	1	0	0	1	0	1	4	1	2	7	22
Temperature °F													
-Maximum													
90° and above	0	0	0	2	0	3	7	0	0	0	0	0	12
32° and below	15	16	2	0	0	0	0	0	0	0	4	8	45
-Minimum													
32° and below	30	25	17	6	1	0	0	0	0	4	24	29	136
0° and below	6	6	0	0	0	0	0	0	0	0	0	1	13
AVG. STATION PRESS. (mb)	991.5	988.8	988.8	987.1	988.5	988.5	988.8	991.5	990.2	992.2	993.9	993.9	990.2
RELATIVE HUMIDITY (%)													
Hour 00	89	87	77	71	81	83	88	85	89	88	81	85	84
Hour 06 (Local Time)	90	92	84	82	84	85	89	88	93	91	83	86	87
Hour 12	76	78	62	52	58	63	62	56	64	66	66	76	65
Hour 18	83	82	66	48	60	60	64	60	73	73	70	81	68
PRECIPITATION (inches):													
Water Equivalent													
-Total	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
-Greatest (24 hrs)	0.54	0.82	0.25	1.00	2.08	0.75	0.85	0.97	3.26	0.82	0.67	0.32	3.26
-Date	2	3- 4	17-18	29-30	16-17	30	27-28	26	24	25-26	17-18	7	SEP 24
Snow,Ice pellets													
-Total	8.7	12.3	0.9	1.2	0.0	0.0	0.0	0.0	0.0	T	5.0	2.0	30.1
-Greatest (24 hrs)	5.7	4.6	0.6	1.2	0.0	0.0	0.0	0.0	0.0	T	3.2	1.7	5.7
-Date	2	6- 7	19	14-15						13	18	8- 9	JAN 2
WIND:													
Resultant													
-Direction (!!)	265	010	229	238	058	094	196	251	177	124	219	265	238
-Speed (mph)	4.0	3.2	3.6	0.9	2.5	0.9	3.0	0.8	1.3	0.5	2.5	2.7	0.9
Average Speed (mph)	10.6	9.5	12.4	12.4	10.0	9.5	8.1	7.3	8.1	8.8	10.5	9.4	9.7
Fastest Obs. 1 Min.													
-Direction (!!)	30	06	19	17	21	22	31	30	21	04	19	30	30
-Speed (mph)	31	24	33	29	28	25	28	22	26	23	29	33	33
-Date	12	6	25	30	4	16	19	26	10	4	8	3	DEC 3
Peak Gust													
-Direction (!!)													
-Speed (mph)	40	35	45	41	40	40	40	35	39	36	38	40	45
-Date	12	6	25	14	4	16	6	26	19	14	9	3	MAR 25

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.2	23.4	33.8	47.9	59.1	68.8	73.0	71.3	63.3	52.0	37.5	24.8	47.8
Extremes														
-Record Highest	36	60	68	85	91	95	99	103	101	102	90	76	66	103
-Year		1967	1976	1986	1980	1975	1954	1955	1953	1953	1971	1961	1984	JUL 1955
-Record Lowest	36	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1972	1967	1986	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	36	6.7	6.5	6.9	6.7	6.3	6.0	5.5	5.7	5.5	5.8	7.0	7.1	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	36	7.4	7.4	5.9	6.5	7.4	7.2	9.4	8.8	9.9	10.2	6.6	6.8	93.6
-Partly Cloudy	36	6.9	5.8	8.0	7.8	9.2	10.8	12.2	10.9	8.6	7.4	5.7	5.5	98.6
-Cloudy	36	16.8	15.0	17.1	15.7	14.4	12.0	9.4	11.3	11.5	13.4	17.7	18.7	173.0
Precipitation														
.01 inches or more	36	9.3	8.0	11.0	11.8	11.4	10.3	9.8	9.1	9.1	8.7	8.9	10.1	117.3
Snow,Ice pellets														
1.0 inches or more	36	2.8	2.3	2.2	0.4	0.*	0.0	0.0	0.0	0.0	0.1	0.9	2.9	11.5
Thunderstorms	36	0.1	0.5	1.8	4.4	5.6	7.8	8.0	6.3	4.9	2.5	1.1	0.4	43.3
Heavy Fog Visibility														
1/4 mile or less	36	2.4	2.6	2.5	1.1	1.0	0.6	1.3	2.0	1.8	2.2	2.5	3.0	22.9
Temperature °F														
-Maximum														
90° and above	23	0.0	0.0	0.0	0.1	0.5	2.3	5.5	3.1	1.1	0.*	0.0	0.0	12.7
32° and below	23	20.3	14.5	5.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.0	14.6	57.7
-Minimum														
32° and below	23	29.6	26.1	23.2	9.1	1.4	0.0	0.0	0.0	0.5	6.2	19.7	27.6	143.3
0° and below	23	9.9	5.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8	19.9
AVG. STATION PRESS.(mb)	14	991.5	991.1	988.2	987.8	987.1	987.6	989.2	990.4	990.8	991.1	990.6	991.0	989.7
RELATIVE HUMIDITY (%)														
Hour 00	23	78	78	78	75	76	78	83	86	85	81	80	81	80
Hour 06 (Local Time)	23	78	80	81	80	81	81	85	90	90	85	83	83	83
Hour 12	23	69	67	62	56	54	55	57	58	58	57	66	73	61
Hour 18	23	74	70	65	57	54	55	58	62	65	65	73	77	65
PRECIPITATION (inches):														
Water Equivalent														
-Normal		:.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	36	4.66	2.67	5.62	9.92	6.98	9.98	11.81	9.27	10.68	8.32	5.51	5.04	11.81
-Year		1960	1971	1961	1973	1974	1967	1952	1965	1961	1969	1985	1971	JUL 1952
-Minimum Monthly	36	0.18	0.04	0.52	1.10	1.44	1.45	1.14	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1985	1961	1957	1981	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	36	2.89	1.73	2.50	5.55	3.61	4.15	5.03	4.24	5.56	5.22	3.20	2.24	5.56
-Year		1960	1966	1976	1973	1977	1969	1952	1972	1961	1954	1961	1971	SEP 1961
Snow,Ice pellets														
-Maximum Monthly	36	26.1	19.5	22.7	7.7	1.0					2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966					1967	1951	1978	JAN 1979
-Maximum in 24 hrs	36	9.9	10.9	10.4	6.7	T					2.2	9.5	8.5	10.9
-Year		1979	1960	1972	1970	1976					1967	1951	1978	FEB 1960
WIND:														
Mean Speed (mph)	36	10.5	10.6	11.7	11.9	10.5	9.4	8.1	7.8	8.6	9.5	10.4	10.4	10.0
Prevailing Direction														
through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	36	27	25	25	11	23	30	30	26	20	29	20	29	11
-Speed (MPH)	36	40	45	46	54	47	46	53	48	52	37	46	44	54
-Year		1980	1953	1953	1953	1954	1974	1984	1965	1961	1980	1961	1970	APR 1953
Peak Gust														
-Direction (!!!)														
-Speed (mph)		44	46	53	58	53	52	70	37	45	45	46	51	70
-Date		1985	1984	1985	1984	1985	1985	1984	1985	1985	1984	1984	1984	JUL 1984

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
1986	0.73	2.44	0.93	2.04	4.79	3.77	3.14	2.38	9.89	2.44	1.12	0.66	34.33
Record Mean	1.65	1.39	2.52	3.43	3.77	4.38	3.75	3.71	3.90	2.85	2.38	1.74	35.47

See Reference Notes on Page 6B.
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AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
1986	20.9	22.5	40.0	52.2	61.4	68.5	75.3	67.1	64.9	51.7	33.4	28.1	48.8
Record Mean	20.4	24.4	35.2	48.3	59.3	69.0	73.8	71.8	64.0	52.5	38.3	25.4	48.5
Max	29.0	33.0	44.4	59.3	71.1	80.5	85.5	83.3	75.6	63.6	47.0	33.2	58.8
Min	11.7	15.7	26.0	37.2	47.6	57 5	62.1	60.3	52.4	41.3	29.5	17.5	38.2

See Reference Notes on Page 6B.
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HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553	1362	1187	771	397	138	35	6903
1986-87	2	42	91	402	942	1135							

See Reference Notes on Page 6B.
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COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675
1986	0	0	4	22	35	148	329	113	92	1	0	0	744

See Reference Notes on Page 6B.
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SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5	8.7	12.3	0.9	1.2	0.0	0.0	40.7
1986-87	0.0	0.0	0.0	T	5.0	2.0							
Record Mean	0.0	0.0	0.0	0.1	2.9	8.9	8.5	6.6	6.8	1.5	T	0.0	35.3

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD, ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB

DESCRIPTION:
Publication and recording information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801

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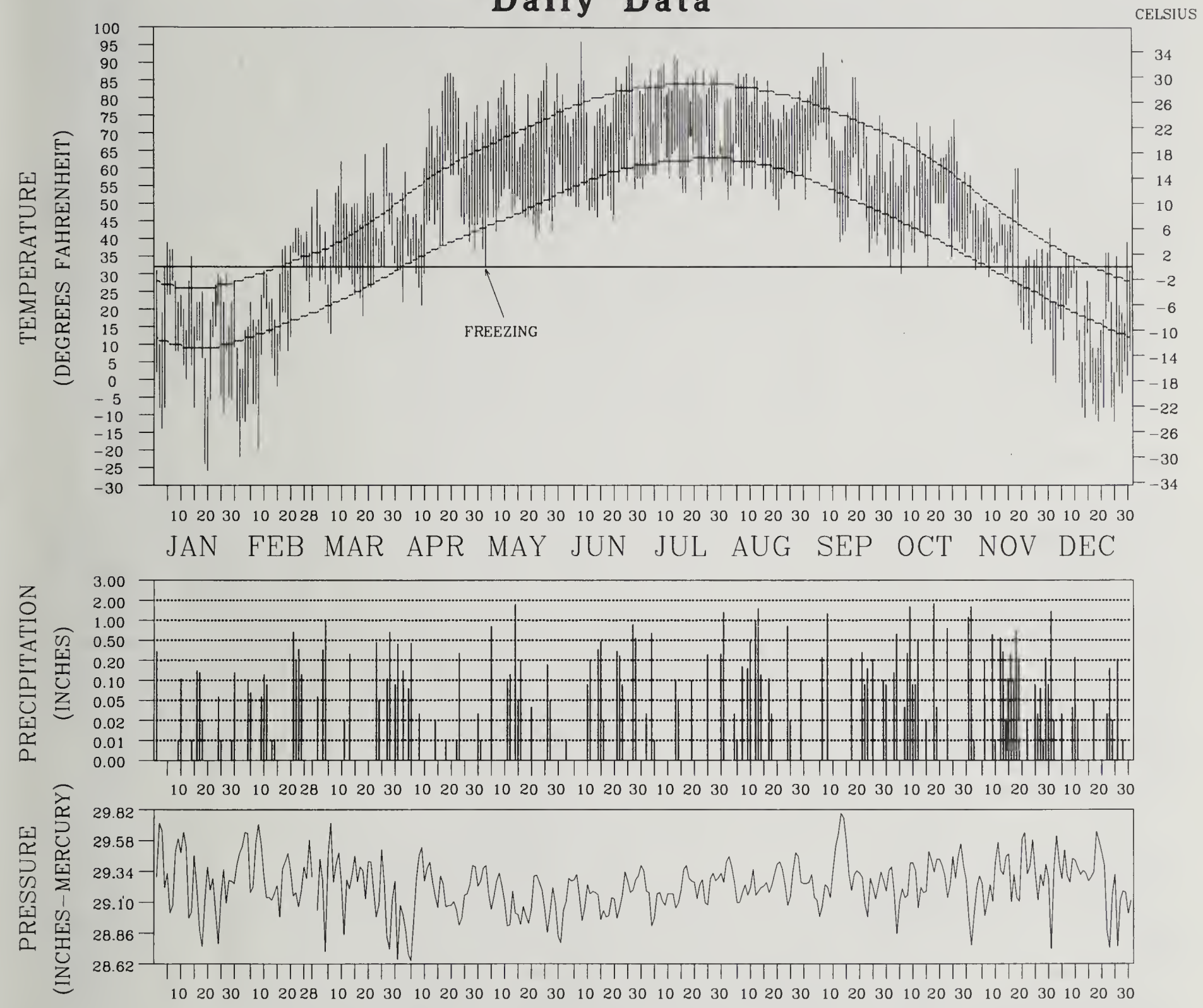
1985 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA
ROCKFORD,
ILLINOIS

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D Wadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1985

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 00732 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	23.0	27.6	48.5	65.7	75.5	78.2	83.3	78.9	74.0	61.8	42.0	24.2	56.9
-Daily Minimum	2.8	10.9	30.1	42.5	48.8	54.6	60.5	57.6	54.0	41.7	28.6	5.0	36.4
-Monthly	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
-Monthly Dewpt.	7.0	14.3	29.9	41.6	48.7	53.1	61.1	59.4	55.3	42.7	31.3	10.2	37.9
Extremes													
-Highest	39	49	67	87	90	96	92	87	93	74	60	43	96
-Date	5	28	27	20	26	8	13	9	7	26	19	1	JUN 8
-Lowest	-26	-22	13	21	32	45	51	48	36	30	10	-12	-26
-Date	20	1	6	9	3	20	23	21	24	6	24	25	JAN 20
DEGREE DAYS BASE 65 °F:													
Heating	1609	1277	789	368	127	55	2	14	157	402	885	1553	7238
Cooling	0	0	0	47	45	106	223	120	134	0	0	0	675
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	5.7	5.9	6.4	6.3	6.1	6.8	5.7	6.6	7.0	7.2	8.8	5.3	6.5
Midnight - Midnight	5.6	6.1	6.1	5.9	5.8	6.4	5.6	6.1	6.6	6.9	8.7	5.9	6.3
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	11	9	6	7	6	2	9	8	5	7	3	14	87
-Partly Cloudy	6	6	11	11	13	14	12	7	10	3	2	4	99
-Cloudy	14	13	14	12	12	14	10	16	15	21	25	13	179
Precipitation .01 inches or more	11	11	11	9	10	11	9	13	9	13	20	12	139
Snow,Ice pellets 1.0 inches or more	5	4	1	1	0	0	0	0	0	0	2	4	17
Thunderstorms	0	0	3	2	6	5	6	8	5	5	1	0	41
Heavy Fog, visibility 1/4 mile or less	2	3	1	0	1	0	2	2	2	3	1	1	18
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	3	3	0	1	0	0	0	8
32° and below	27	17	1	0	0	0	0	0	0	0	5	23	73
-Minimum													
32° and below	31	24	22	6	1	0	0	0	0	3	18	31	136
0° and below	13	8	0	0	0	0	0	0	0	0	0	14	35
AVG. STATION PRESS. (mb)	990.5	993.2	989.2	986.8	985.4	987.1	988.5	990.9	991.5	991.4	991.4	990.9	989.8
RELATIVE HUMIDITY (%)													
Hour 00	80	84	79	78	76	78	85	90	85	83	86	84	82
Hour 06 (Local Time)	80	84	84	83	83	80	88	92	89	87	88	85	85
Hour 12	70	72	61	51	51	51	54	57	64	60	77	73	62
Hour 18	74	76	63	54	49	52	57	64	69	67	83	79	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
-Greatest (24 hrs)	0.88	0.71	1.40	0.46	1.82	1.46	1.72	2.60	1.34	1.89	2.14	1.53	2.60
-Date	PM- 1	21	3- 4	5	14	27-28	30-31	12-13	8	18-19	PM- 1	PM- 1	AUG 12-13
Snow,Ice pellets													
-Total	13.4	8.3	2.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.5	44.5
-Greatest (24 hrs)	9.8	2.8	1.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.3	9.8
-Date	PM- 1	4- 5	3	5							29	10	JAN PM- 1
WIND:													
Resultant													
-Direction (!!)	291	272	255	229	209	279	223	168	183	164	014	277	255
-Speed (mph)	6.7	3.4	0.5	3.2	1.9	0.8	1.5	1.6	4.3	1.1	3.3	6.2	1.7
Average Speed (mph)	12.2	11.1	13.2	12.6	11.5	10.6	8.6	7.1	10.2	9.7	11.2	11.7	10.8
Fastest Obs. 1 Min.													
-Direction (!!)	31	29	30	27	27	27	18	29	34	30	27	29	27
-Speed (mph)	30	25	37	28	40	31	22	23	30	29	30	32	40
-Date	14	18	11	23	31	23	24	13	8	5	19	26	MAY 31
Peak Gust													
-Direction (!!)													
-Speed (mph)	44	44	53	48	53	52	32	37	45	43	41	46	53
-Date	24	18	4	23	31	23	24	12	23	4	19	1	MAY 31

(!!) See Reference Notes on Page 68

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. GRND 724 BARO 00732 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.2	23.4	33.8	47.9	59.1	68.8	73.0	71.3	63.3	52.0	37.5	24.8	47.8
Extremes														
-Record Highest	35	60	68	81	91	95	99	103	101	102	90	76	66	103
-Year		1967	1976	1981	1980	1975	1954	1955	1953	1953	1971	1961	1984	JUL 1955
-Record Lowest	35	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1985	1962	1982	1966	1972	1967	1958	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	35	6.7	6.5	6.9	6.7	6.3	6.0	5.5	5.7	5.4	5.7	7.0	7.1	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	35	7.4	7.6	5.9	6.5	7.5	7.2	9.4	8.8	10.1	10.2	6.7	6.9	94.2
-Partly Cloudy	35	6.9	5.8	8.1	7.7	9.2	10.8	12.3	10.9	8.7	7.5	5.7	5.5	99.0
-Cloudy	35	16.7	14.9	17.0	15.7	14.3	12.0	9.3	11.3	11.2	13.3	17.7	18.6	172.1
Precipitation														
.01 inches or more	35	9.4	7.9	11.1	11.8	11.3	10.3	9.7	9.1	9.0	8.6	8.8	10.3	117.3
Snow, Ice pellets														
1.0 inches or more	35	2.8	2.2	2.2	0.4	0.*	0.0	0.0	0.0	0.0	0.1	0.9	2.9	11.5
Thunderstorms	35	0.1	0.5	1.8	4.4	5.5	7.9	7.9	6.3	4.8	2.5	1.1	0.4	43.4
Heavy Fog Visibility														
1/4 mile or less	35	2.5	2.5	2.5	1.2	1.1	0.6	1.3	2.0	1.7	2.3	2.5	2.9	22.9
Temperature °F														
-Maximum														
90° and above	22	0.0	0.0	0.0	0.*	0.5	2.3	5.4	3.3	1.1	0.*	0.0	0.0	12.8
32° and below	22	20.5	14.5	5.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.0	14.9	58.3
-Minimum														
32° and below	22	29.5	26.1	23.5	9.2	1.4	0.0	0.0	0.0	0.5	6.3	19.5	27.5	143.6
0° and below	22	10.1	5.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.0	20.2
AVG. STATION PRESS.(mb)	13	991.5	991.3	988.1	987.8	987.0	987.5	989.2	990.3	990.9	991.0	990.3	990.8	989.6
RELATIVE HUMIDITY (%)														
Hour 00	22	77	78	78	75	76	78	83	86	85	81	80	81	80
Hour 06 (Local Time)	22	78	79	81	80	80	81	85	90	89	85	83	83	83
Hour 12	22	69	66	62	56	54	55	56	59	58	57	66	73	61
Hour 18	22	73	70	65	57	54	55	58	63	64	64	73	77	64
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	35	4.66	2.67	5.62	9.92	6.98	9.98	11.81	9.27	10.68	8.32	5.51	5.04	11.81
-Year		1960	1971	1961	1973	1974	1967	1952	1965	1961	1969	1985	1971	JUL 1952
-Minimum Monthly	35	0.18	0.04	0.52	1.10	1.44	1.45	1.14	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1985	1961	1957	1981	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	35	2.89	1.73	2.50	5.55	3.61	4.15	5.03	4.24	5.56	5.22	3.20	2.24	5.56
-Year		1960	1966	1976	1973	1977	1969	1952	1972	1961	1954	1961	1971	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	35	26.1	19.5	22.7	7.7	1.0					2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966					1967	1951	1978	JAN 1979
-Maximum in 24 hrs	35	9.9	10.9	10.4	6.7	T					2.2	9.5	8.5	10.9
-Year		1979	1960	1972	1970	1976					1967	1951	1978	FEB 1960
WIND:														
Mean Speed (mph)	35	10.5	10.6	11.6	11.9	10.6	9.4	8.1	7.8	8.6	9.5	10.4	10.5	10.0
Prevailing Direction through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	35	27	25	25	11	23	30	30	26	20	29	20	29	11
-Speed (MPH)	35	40	45	46	54	47	46	53	48	52	37	46	44	54
-Year		1980	1953	1953	1953	1954	1974	1984	1965	1961	1980	1961	1970	APR 1953
Peak Gust														
-Direction (!!!)														
-Speed (mph)		44	46	53	58	53	52	70	37	45	45	46	51	70
-Date		1985	1984	1985	1984	1985	1985	1984	1985	1985	1984	1984	1984	JUL 1984

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
1985	1.00	1.88	3.66	1.10	3.43	3.34	2.98	4.71	2.81	7.39	5.51	2.30	40.11
Record Mean	1.66	1.38	2.54	3.45	3.76	4.39	3.76	3.73	3.83	2.85	2.39	1.75	35.49

See Reference Notes on Page 6B.
Page 4A

AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
1985	12.9	19.3	39.3	54.1	62.2	66.4	71.9	68.3	64.0	51.8	35.3	14.6	46.7
Record Mean	20.4	24.4	35.1	48.2	59.3	69.0	73.8	71.8	64.0	52.5	38.3	25.3	48.5
Max	29.0	33.0	44.3	59.2	71.1	80.5	85.5	83.4	75.6	63.6	47.0	33.1	58.8
Min	11.7	15.7	25.9	37.1	47.6	57.5	62.1	60.3	52.3	41.3	29.5	17.5	38.2

See Reference Notes on Page 6B.
Page 4B

HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101	1609	1277	789	368	127	55	6679
1985-86	2	14	157	402	885	1553							

See Reference Notes on Page 6B.
Page 5A

COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748
1985	0	0	0	47	45	106	223	120	134	0	0	0	675

See Reference Notes on Page 6B.
Page 5B

SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2	13.4	8.3	2.8	2.4	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	5.1	12.5							
Record Mean	0.0	0.0	0.0	0.1	2.8	9.1	8.5	6.5	6.9	1.5	T	0.0	35.5

See Reference Notes on Page 6B.
Page 6A

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1906 FOR PRECIPITATION
1951 FOR SNOWFALL

ROCKFORD, ILLINOIS

The climate of Rockford is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4 f4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79. f - Type change 7/17/85.

* Type
M = AMOS
T = AUTOB

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801

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1984 LOCAL CLIMATOLOGICAL DATA

ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD,
ILLINOIS

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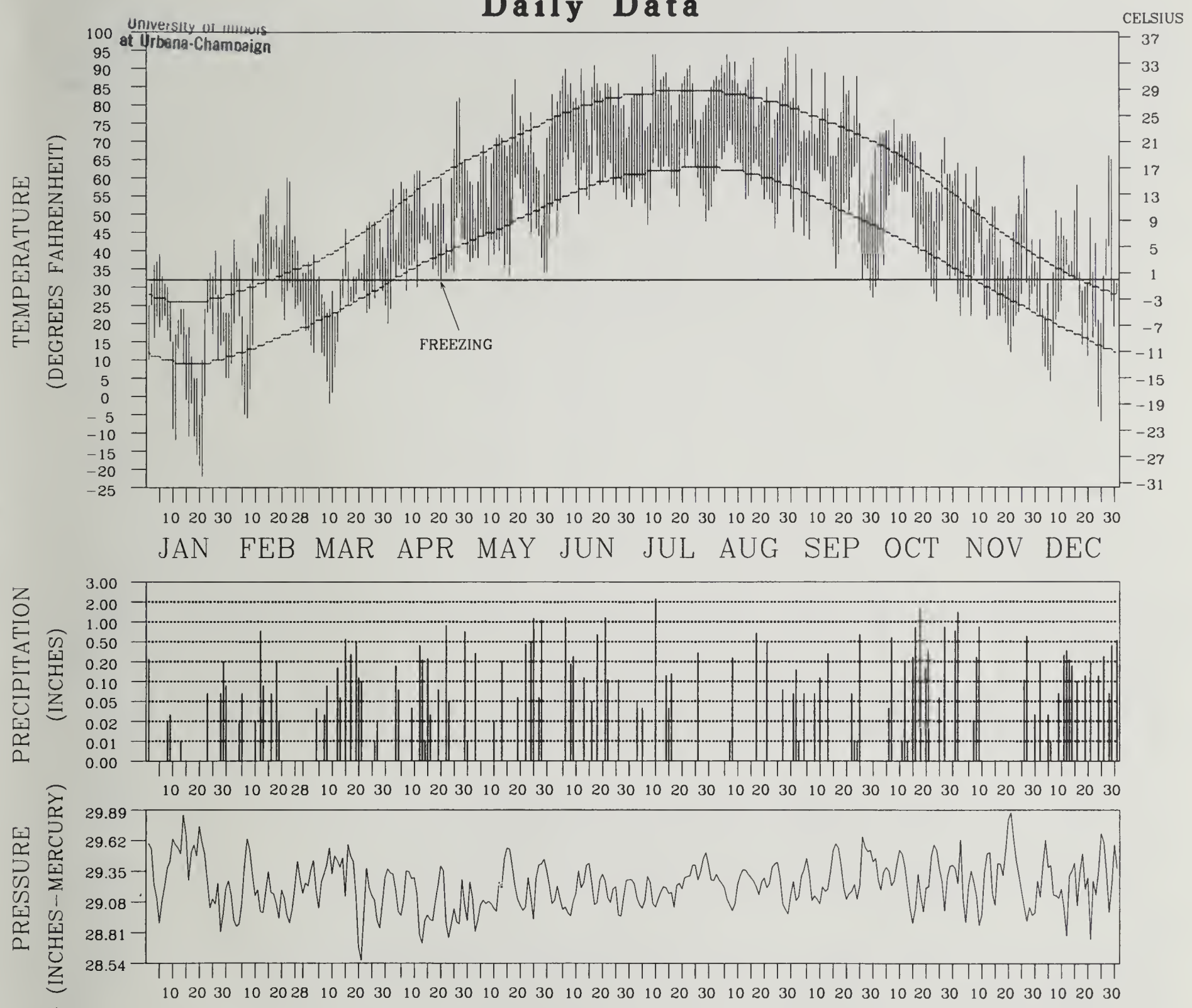
Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
STATION PRESSURE IS MEASURED IN INCHES OF MERCURY

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Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1984

ROCKFORD, ILLINOIS

LATITUDE: 42°12' N LONGITUDE: 89°06' W ELEVATION: FT. (grd) 724 (msl) 743 TIME ZONE: CENTRAL WBAN: 94822

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	24.1	40.3	35.7	56.2	67.1	82.3	82.6	85.3	73.5	65.2	47.2	37.9	58.1
-Daily Minimum	7.9	23.5	21.4	37.5	43.7	59.4	58.9	60.2	49.7	43.9	26.9	20.5	37.8
-Monthly	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
-Monthly Dewpt.	11.5	25.3	20.3	34.0	42.7	59.9	60.5	62.5	50.7	46.3	28.6	24.0	38.9
Extremes													
-Highest	40	60	49	82	87	91	94	96	94	76	66	66	96
-Date	26	22	31	27	18	17	10	29	1	8	26	28	AUG 29
-Lowest	-22	-6	-2	24	33	44	47	45	27	26	12	-7	-22
-Date	21	7	9	1	16	3	7	31	30	24	21	25	JAN 21
DEGREE DAYS BASE 65 °F:													
Heating	1515	952	1123	542	302	7	9	9	180	322	833	1101	6895
Cooling	0	0	0	3	12	189	195	257	87	5	0	0	748
% OF POSSIBLE SUNSHINE													
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.5	7.1	7.7	7.7	6.5	6.7	5.4	4.8	6.2	7.5	6.6	6.6	6.6
Midnight - Midnight	6.9	6.8	7.0	7.7	6.4	6.5	4.9	4.3	5.9	7.3	5.8	6.9	6.4
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	6	5	4	6	3	12	12	8	6	9	9	88
-Partly Cloudy	8	7	5	4	11	14	9	10	8	4	4	5	89
-Cloudy	15	16	21	22	14	13	10	9	14	21	17	17	189
Precipitation .01 inches or more	8	8	12	13	9	9	7	6	10	13	7	16	118
Snow, Ice pellets 1.0 inches or more	3	1	4	0	0	0	0	0	0	0	0	5	13
Thunderstorms	0	1	1	1	3	9	4	7	5	7	2	0	40
Heavy Fog, visibility 1/4 mile or less	1	8	4	0	1	0	2	0	1	4	3	6	30
Temperature °F													
-Maximum													
90° and above	0	0	0	0	0	3	4	8	2	0	0	0	17
32° and below	23	5	10	0	0	0	0	0	0	0	1	11	50
-Minimum													
32° and below	31	22	29	4	0	0	0	0	3	6	23	26	144
0° and below	10	2	1	0	0	0	0	0	0	0	0	2	15
AVG. STATION PRESS. (mb)	993.9	987.1	989.8	984.4	988.2	987.3	989.8	989.5	992.2	991.9	991.2	991.2	989.8
RELATIVE HUMIDITY (%)													
Hour 00	83	84	79	71	75	80	86	88	82	89	79	86	82
Hour 06 (Local Time)	82	87	80	77	82	81	88	92	86	89	83	86	84
Hour 12	74	70	64	57	54	58	55	54	56	66	62	76	62
Hour 18	79	75	66	59	52	58	56	58	62	73	69	81	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
-Greatest (24 hrs)	0.29	0.86	0.63	0.92	1.71	1.33	2.18	0.72	0.70	1.67	2.27	0.67	2.27
-Date	29-30	12-13	19-20	22	24-25	21-22	10	17	24-25	18	PM- 1	11-12	NOV PM- 1
Snow, Ice pellets													
-Total	8.8	2.2	10.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	14.2	37.0
-Greatest (24 hrs)	3.9	2.1	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.9	5.9
-Date	29-30	4- 5	17	3							30	31	DEC 31
WIND:													
Resultant													
-Direction (!!!)	251	267	037	055	294	211	232	207	205	156	218	245	221
-Speed (mph)	2.9	0.8	4.1	4.5	2.0	2.5	1.8	0.9	2.8	3.1	3.2	2.6	0.8
Average Speed (mph)	9.9	10.9	11.5	13.6	11.1	10.7	8.2	7.6	9.5	9.7	11.0	12.3	10.5
Fastest Obs. 1 Min.													
-Direction (!!!)	31	04	07	21	01	18	30	31	22	26	29	22	30
-Speed (mph)	23	32	26	43	29	28	53	25	29	30	31	38	53
-Date	28	28	17	30	13	8	10	8	7	16	15	16	JUL 10
PEAK GUST													
-direction (!!!)													
-Speed (mph)	32	46	38	58	41	45	70	36	45	45	46	51	70
-Date	28	28	28	30	28	8	10	8	25	19	15	16	JUL 10

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

ROCKFORD, ILLINOIS

LATITUDE: 42°12'N LONGITUDE: 89°06' W ELEVATION: FT. (grd) 724 (msl) 743 TIME ZONE: CENTRAL WBAN: 94822

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		26.6	31.8	42.5	58.5	70.6	80.1	83.7	81.9	74.6	63.0	46.3	32.6	57.7
-Daily Minimum		9.8	14.9	25.1	37.3	47.6	57.6	62.2	60.6	52.0	41.0	28.7	17.0	37.8
-Monthly		18.2	23.4	33.8	47.9	59.1	68.8	73.0	71.3	63.3	52.0	37.5	24.8	47.8
Extremes														
-Record Highest	34	60	68	81	91	95	99	103	101	102	90	76	66	103
-Year		1967	1976	1981	1980	1975	1954	1955	1953	1953	1971	1961	1984	JUL 1955
-Record Lowest	34	-27	-22	-11	5	24	38	43	41	27	15	-10	-24	-27
-Year		1982	1976	1962	1982	1966	1972	1967	1958	1984	1952	1977	1983	JAN 1982
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1448	1165	967	513	227	34	5	11	99	412	825	1246	6952
Cooling (base 65°F)		0	0	0	0	44	151	253	206	48	12	0	0	714
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER (tenths)														
Sunrise - Sunset	34	6.7	6.5	6.9	6.7	6.3	6.0	5.5	5.6	5.4	5.7	6.9	7.1	6.3
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	34	7.3	7.5	5.9	6.5	7.5	7.3	9.4	8.9	10.3	10.3	6.8	6.6	94.4
-Partly Cloudy	34	6.9	5.8	8.1	7.6	9.1	10.7	12.3	11.0	8.6	7.6	5.8	5.6	99.0
-Cloudy	34	16.8	15.0	17.1	15.9	14.4	11.9	9.3	11.1	11.1	13.1	17.4	18.8	171.9
Precipitation .01 inches or more	34	9.3	7.8	11.1	11.9	11.4	10.3	9.7	9.0	9.0	8.5	8.5	10.2	116.6
Snow,Ice pellets 1.0 inches or more	34	2.8	2.1	2.3	0.4	0.*	0.0	0.0	0.0	0.0	0.1	0.9	2.9	11.4
Thunderstorms	34	0.1	0.5	1.8	4.5	5.5	7.9	8.0	6.3	4.8	2.5	1.1	0.4	43.4
Heavy Fog Visibility 1/4 mile or less	34	2.5	2.5	2.6	1.2	1.1	0.6	1.3	2.0	1.7	2.2	2.5	2.9	23.1
Temperature °F														
-Maximum														
90° and above	21	0.0	0.0	0.0	0.*	0.5	2.3	5.5	3.4	1.1	0.*	0.0	0.0	13.0
32° and below	21	20.2	14.3	5.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.5	57.6
-Minimum														
32° and below	21	29.5	26.2	23.6	9.4	1.4	0.0	0.0	0.0	0.5	6.5	19.5	27.3	144.0
0° and below	21	10.0	5.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.5	19.5
AVG. STATION PRESS.(mb)	12	991.6	991.1	988.0	987.9	987.2	987.5	989.2	990.2	990.8	991.0	990.2	990.8	989.6
RELATIVE HUMIDITY (%)														
Hour 00	21	77	77	78	75	76	78	83	86	85	80	80	81	80
Hour 06 (Local Time)	21	78	79	81	80	80	81	85	90	89	85	83	82	83
Hour 12	21	69	66	62	56	54	55	56	59	58	56	66	73	61
Hour 18	21	73	70	65	57	54	55	58	63	64	64	72	77	64
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.42	1.18	2.59	4.22	3.75	4.58	4.50	3.71	3.70	2.92	2.30	1.91	36.78
-Maximum Monthly	34	4.66	2.67	5.62	9.92	6.98	9.98	11.81	9.27	10.68	8.32	4.83	5.04	11.81
-Year		1960	1971	1961	1973	1974	1967	1952	1965	1961	1969	1961	1971	JUL 1952
-Minimum Monthly	34	0.18	0.04	0.52	1.79	1.44	1.45	1.14	0.67	0.05	0.01	0.38	0.37	0.01
-Year		1961	1969	1958	1971	1961	1957	1981	1970	1979	1952	1976	1976	OCT 1952
-Maximum in 24 hrs	34	2.89	1.73	2.50	5.55	3.61	4.15	5.03	4.24	5.56	5.22	3.20	2.24	5.56
-Year		1960	1966	1976	1973	1977	1969	1952	1972	1961	1954	1961	1971	SEP 1961
Snow,Ice pellets														
-Maximum Monthly	34	26.1	19.5	22.7	7.7	1.0					2.2	14.7	25.1	26.1
-Year		1979	1960	1964	1982	1966					1967	1951	1978	JAN 1979
-Maximum in 24 hrs	34	9.9	10.9	10.4	6.7	T					2.2	9.5	8.5	10.9
-Year		1979	1960	1972	1970	1976					1967	1951	1978	FEB 1960
WIND:														
Mean Speed (mph)	34	10.5	10.6	11.6	11.9	10.5	9.4	8.1	7.8	8.6	9.5	10.4	10.4	9.9
Prevailing Direction through 1963		WNW	WNW	ENE	WNW	ENE	SSW	SSW	SSW	SSW	SSW	WNW	WNW	SSW
Fastest Obs. 1 Min.														
-Direction (!!!)	34	27	25	25	11	23	30	30	26	20	29	20	29	11
-speed (MPH)	34	40	45	46	54	47	46	53	48	52	37	46	44	54
-year		1980	1953	1953	1953	1954	1974	1984	1965	1961	1980	1961	1970	APR 1953

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
1983	0.52	1.48	2.70	3.85	4.99	1.55	3.85	2.47	3.80	2.25	4.68	2.31	34.45
1984	0.73	1.29	2.04	3.09	3.95	3.99	2.92	1.63	1.54	5.93	3.44	3.29	33.84
Record Mean	1.67	1.38	2.52	3.48	3.76	4.40	3.77	3.72	3.84	2.79	2.36	1.74	35.43

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
1983	25.3	29.5	36.8	43.9	54.7	70.5	78.0	77.2	63.3	51.5	40.1	12.7	48.6
1984	16.0	31.9	28.6	46.9	55.4	70.9	70.8	72.8	61.6	54.6	37.1	29.2	48.0
Record Mean	20.4	24.4	35.1	48.1	59.3	69.1	73.8	72.0	64.0	52.5	38.3	25.5	48.5
Max	29.0	33.1	44.3	59.1	71.1	80.6	85.5	83.5	75.6	63.7	47.1	33.3	58.8
Min	11.8	15.8	25.9	37.1	47.5	57.5	62.1	60.4	52.3	41.3	29.5	17.6	38.2

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984	1224	987	867	627	316	34	6390
1983-84	6	0	148	423	742	1615	1515	952	1123	542	302	7	7375
1984-85	9	9	180	322	833	1101							

See Reference Notes on Page 6B.
Page 5A

COOLING DEGREE DAYS Base 65 deg. F

ROCKFORD, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709
1983	0	0	0	0	4	207	416	386	104	10	0	0	1127
1984	0	0	0	3	12	189	195	257	87	5	0	0	748

See Reference Notes on Page 6B.
Page 5B

SNOWFALL (inches)

ROCKFORD, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6	5.5	9.5	9.4	T	0.0	0.0	28.0
1983-84	0.0	0.0	0.0	0.0	0.5	18.3	8.8	2.2	10.9	0.7	0.0	0.0	41.4
1984-85	0.0	0.0	0.0	0.0	0.2	14.2							
Record Mean	0.0	0.0	0.0	0.1	2.7	9.0	8.4	6.4	7.1	1.5	0.0	0.0	35.2

See Reference Notes on Page 6B.

REFERENCE NOTES

ROCKFORD, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENDTE MISSING/UNREPORTED DATA.
# INDICATES A STATIDN DR INSTRUMENT RELDCATIDN.
SEE STATIDN LDCATION TA8LE DN PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY DF PREVIDUS MDNTH

PAGE 3
(a) - LENGTH DF RECDRD IN YEARS, ALTHDUGH INDIVIDUAL MDNTHS MAY BE MISSING.
* LESS THAN .D5
NDRMALS - BASED DN THE 1951-198D RECDRD PERIDD.
EXTREMES - DATES ARE THE MDST RECENT DCCURRENCE
WIND DIR.- NUMERALS SHDW TENS DF DEGRESS CLDCKWISE FRDM TRUE NDRTH. "DD" INDICATES CALM.
RESULTANT DIRECTIDNS ARE GIVEN TD WHDLE DEGREES.

PAGES 4A, 4B, 6A
RECDRD MEANS ARE FDR ENTIRE PERIDD DF RECDRD, REGARDLESS OF LDCATIDN

EXCEPTIONS

NDNE

ROCKFORD, ILLINOIS

Rockfords climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the 1951–1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 11 and the average last occurrence in the spring is April 29.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79.

* Type
M = AMOS
T = AUTOB

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Maps and Geog.

Local Climatological Data

Annual Summary With Comparative Data

1982

ROCKFORD, ILLINOIS

Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1976, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 164. The average date of the last 32° temperature in the spring is May 2, and the first in the fall is October 9. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 13, 1975.

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Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS # 94822 — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12′ N — Longitude: 69° 06′ W — Elevation (ground): 724 feet — Year: 1982

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date
JAN	19.2	-1.5	8.9	37	23	-27	10	1739	0	1.58	0.34	3-4	14.8	2.4	24-25
FEB	28.2	10.9	19.6	48	22	-20	6	1268	0	0.20	0.17	5	1.8	1.7	5
MAR	41.2	24.3	32.8	69	30	-3	8	990	0	3.63	0.90	19-20	8.1	3.3	3-4
APR	55.5	32.5	44.0	74	24	5	7	623	0	3.47	2.03	2-3	7.7	6.3	5
MAY	76.6	54.3	65.5	89	14	40	2	74	96	4.56	1.49	26-27	0.0	0.0	
JUN	76.9	52.6	64.8	86	7	43	11	61	61	4.31	1.71	25	0.0	0.0	
JUL	84.2	65.0	74.6	91	17	53	1	0	303	8.89	4.50	21-22	0.0	0.0	
AUG	79.0	59.0	69.0	94	3	43	28	32	168	2.69	0.86	4	0.0	0.0	
SEP	72.9	50.6	61.8	87	30	35	22	156	66	1.70	0.72	16-17	0.0	0.0	
OCT	65.7	41.5	53.6	86	6	24	22	362	15	4.22	2.21	8-9	T	T	20
NOV	46.2	29.9	38.1	66	20	13	24	801	0	4.69	2.08	31-1	T	T	26
DEC	40.9	25.2	33.1	64	2	3	12	984	0	3.65	2.02	2-3	3.6	2.5	15-16
YEAR	57.2	37.0	47.1	94	AUG 3	-27	JAN 10	7090	709	43.59	4.50	JUL 21-22	36.0	6.3	APR 5

Month	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset
JAN	75	74	68	73	29	3.8	12.8	37	24	23		6.8
FEB	75	77	63	68	32	0.7	9.3	24	04	23		6.0
MAR	72	77	58	60	27	1.6	12.1	35	28	13		7.1
APR	73	78	50	51	21	1.6	12.5	45	28	3		6.3
MAY	79	84	57	59	16	3.3	8.7	33	21	6		8.1
JUN	80	84	53	56	33	1.1	8.5	25	27	20		6.2
JUL	87	88	64	67	20	2.4	8.0	25	24	14		5.6
AUG	88	92	60	64	18	0.6	6.8	46	34	24		6.4
SEP	91	95	64	68	20	1.2	8.6	23	16	28		6.1
OCT	82	89	53	61	20	4.6	9.1	31	23	20		5.9
NOV	82	86	73	77	22	2.8	10.6	30	25	12		8.1
DEC	86	85	75	81	22	3.1	11.1	37	20	28		7.5
YEAR	81	84	62	65	22	1.6	9.8	46	34	AUG 24		6.7

Month	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	6	9	16	16	7	0	1	0	24	31	16	990.2
FEB	8	7	13	3	1	0	2	0	15	27	8	995.6
MAR	5	9	17	12	4	3	2	0	7	20	2	989.5
APR	9	4	17	10	2	4	0	0	3	15	0	989.5
MAY	2	10	19	15	0	8	2	0	0	0	0	987.5
JUN	7	10	13	11	0	6	0	0	0	0	0	987.8
JUL	12	8	11	12	0	12	0	2	0	0	0	988.8
AUG	9	9	13	8	0	3	3	1	0	0	0	991.2
SEP	6	11	13	7	0	4	4	0	0	0	0	991.2
OCT	9	10	12	10	0	4	3	0	0	6	0	990.5
NOV	3	4	23	11	0	3	2	0	5	20	0	991.2
DEC	5	7	19	15	1	2	3	0	9	23	0	990.2
YEAR	81	98	186	130	15	49	22	3	63	142	26	990.3

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year
(a)				32		32					32		32		32	
J	28.9	11.5	20.2	60	1967	-27	1982	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960
F	32.6	15.3	24.0	68	1976	-22	1976	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966
M	43.1	25.0	34.1	81	1981	-11	1962	958	0	2.65	5.62	1961	0.52	1958	2.50	1976
A	59.1	37.3	48.2	91	1980	5	1982	504	0	3.85	9.92	1973	1.79	1971	5.55	1973
M	70.3	47.2	58.8	95	1975	24	1966	233	44	3.86	6.98	1974	1.44	1961	3.61	1977
J	79.9	57.7	68.8	99	1954	38	1972	35	151	4.42	9.98	1967	1.45	1957	4.15	1969
J	84.2	61.4	72.8	103	1955	43	1967	6	253	4.27	11.81	1952	1.14	1981	5.03	1952
A	82.8	60.1	71.5	101	1953	41	1958	16	206	3.66	9.27	1965	0.67	1970	4.24	1972
S	74.7	51.8	63.3	102	1953	28	1976	99	48	4.00	10.68	1961	0.05	1979	5.56	1961
O	64.3	41.1	52.7	90	1971	15	1952	392	12	2.85	8.32	1969	0.01	1952	5.22	1954
N	46.5	28.7	37.6	76	1961	-10	1977	822	0	2.37	4.83	1961	0.38	1976	3.20	1961
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1976	2.24	1971
YR	58.3	37.8	48.1	103	JUL 1955	-27	JAN 1982	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961

Month	Precipitation in inches: Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset
(a)	32		32		19	19	19	19	32	13	32	32			32
J	26.1	1979	9.9	1979	77	77	69	73	10.5	WNW	40	27	1980		6.7
F	19.5	1960	10.9	1960	76	78	65	69	10.7	WNW	45	25	1953		6.4
M	22.7	1964	10.4	1972	77	81	61	64	11.6	ENE	46	25	1953		6.9
A	7.7	1982	6.7	1970	75	80	56	57	11.8	WNW	54	11	1953		6.7
M	1.0	1966	T	1976	75	80	53	54	10.5	ENE	47	23	1954		6.3
J	0.0		0.0		78	81	55	55	9.3	SSW	46	30	1974		6.0
J	0.0		0.0		82	85	57	58	8.1	SSW	50	29	1951		5.5
A	0.0		0.0		86	90	59	63	7.8	SSW	48	26	1965		5.7
S	0.0		0.0		85	90	58	64	8.5	SSW	52	20	1961		5.4
O	2.2	1967	2.2	1967	80	84	56	63	9.5	SSW	37	29	1980		5.6
N	14.7	1951	9.5	1951	80	83	65	72	10.4	WNW	46	20	1961		6.9
D	25.1	1978	8.5	1978	81	82	73	77	10.4	WNW	44	29	1970		7.2
YR	26.1	JAN 1979	10.9	FEB 1960	79	83	61	64	9.9	WNW	54	11	APR 1953		6.3

Month	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and above	Min.: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
(a)	32	32	32	32	32	32	32	19	19	19	19	10
J	7	7	17	9	3	*	3	0	20	29	10	991.3
F	8	5	15	8	2	1	2	0	15	27	6	991.6
M	6	8	17	11	2	2	3	0	5	23	*	988.1
A	7	7	16	12	*	5	1	*	*	10	0	988.6
M	8	9	14	11	*	6	1	1	0	2	0	987.2
J	7	11	12	10	0	8	1	2	0	0	0	987.5
J	9	13	9	10	0	8	1	5	0	0	0	989.1
A	9	11	11	9	0	6	2	3	0	0	0	990.2
S	10	9	11	9	0	5	2	1	0	*	0	990.7
O	11	7	13	8	*	2	2	*	0	6	0	990.8
N	7	6	17	8	1	1	3	0	3	19	*	990.6
D	7	5	19	10	3	*	3	0	14	27	3	990.5
YR	96	98	171	116	11	44	23	11	58	144	20	989.7

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. DD indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Means and extremes above are from existing and comparable exposures.
Annual extremes have been exceeded at other sites in the locality as follows:

Temperature
Highest: 112 in Jul. 1936.

Snowfall
Maximum monthly: 36.1 in Jan. 1918.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
1982	8.9	19.6	32.8	44.0	65.5	64.8	74.6	69.0	61.8	53.6	38.1	33.1	47.1
RECORD MEAN	20.5	24.3	35.2	48.2	59.4	69.0	73.8	71.9	64.0	52.5	38.3	25.6	48.5
MAX	29.1	33.0	44.4	59.2	71.2	80.5	85.5	83.4	75.6	63.7	47.1	33.4	58.8
MIN	11.8	15.6	25.9	37.1	47.6	57.5	62.1	60.3	52.3	41.2	29.5	17.8	38.2

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	459	866	1110	1411	1280	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296	1739	1268	990	623	74	61	7429
1982-83	0	32	156	362	801	984							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674
1982	0	0	0	0	96	61	303	168	66	15	0	0	709

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
1982	1.58	0.20	3.63	3.47	4.56	4.31	8.89	2.69	1.70	4.22	4.69	3.65	43.59
RECORD MEAN	1.70	1.38	2.53	3.48	3.74	4.44	3.78	3.76	3.87	2.76	2.31	1.72	35.47

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	10.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	10.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	10.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.6	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.9	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.0	1.4	6.7	2.5	0.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8	14.8	1.8	8.1	7.7	0.0	0.0	41.0
1982-83	0.0	0.0	0.0	T	T	3.6							
RECORD MEAN	0.0	0.0	0.0	0.1	2.9	8.5	8.5	6.5	6.9	1.6	T	0.0	35.0

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79.

* Type
M = AMOS
T = AUTOB

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801, ATTN: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records received at the National Climatic Data Center, Asheville, North Carolina 28801.

L. Ray Hoxit
Acting Director
National Climatic Data Center

USCOMM-NOAA-ASHEVILLE - 1050

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Map + Geography

Local Climatological Data

Annual Summary With Comparative Data

1981

ROCKFORD, ILLINOIS

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Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1976, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 164. The average date of the last 32° temperature in the spring is May 2, and the first in the fall is October 9. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 13, 1975.

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS # 94822 — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12′ N — Longitude: 89° 06′ W — Elevation (ground): 724 feet — Year: 1981

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date
JAN	31.0	11.8	21.4	55	24	-9	4	1346	0	0.22	0.11	31	2.5	1.0	31
FEB	35.8	15.9	25.9	60	19	-15	12	1089	0	2.40	1.40	21-22	9.1	6.3	10
MAR	48.8	25.8	37.3	81	31	15	3	851	0	0.65	0.49	29	0.6	0.6	10
APR	63.3	39.4	51.4	80	27	21	6	402	3	5.21	1.13	10	0.0	0.0	
MAY	68.8	43.8	56.3	82	29	29	12	275	15	1.84	0.78	10	0.0	0.0	
JUN	80.9	59.0	70.0	88	5	49	17	9	164	5.88	3.04	12-13	0.0	0.0	
JUL	82.2	62.8	72.5	95	12	48	29	9	248	1.14	0.40	14-15	0.0	0.0	
AUG	80.8	61.5	71.2	88	4	47	18	6	202	9.18	2.32	31	0.0	0.0	
SEP	73.4	51.6	62.5	87	30	38	28	109	42	3.51	3.15	31-1	0.0	0.0	
OCT	60.1	37.5	46.8	74	30	18	24	493	0	2.47	1.37	17-18	T	T	23
NOV	48.8	29.9	39.4	70	3	10	22	761	0	1.63	0.59	26	2.8	1.7	23
DEC	30.5	15.3	22.9	49	7	-6	29	1296	0	0.77	0.24	31	5.8	2.0	31
YEAR	58.7	37.9	48.3	95	JUL 12	-15	FEB 12	6646	674	34.90	3.15	SEP 31-1	20.8	6.3	FEB 10

Month	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset
JAN	70	73	58	61	30	4.8	10.3	28	27	26		5.4
FEB	80	80	68	74	23	4.6	13.7	30	35	10		6.3
MAR	76	81	49	49	30	3.5	11.5	35	21	31		5.4
APR	63	70	55	54	22	2.6	13.0	37	29	1		7.0
MAY	74	81	53	50	08	2.6	11.1	30	01	10		6.7
JUN	79	82	57	58	22	3.8	9.9	29	19	15		6.6
JUL	85	87	62	64	10	2.7	7.5	18	06	1		6.3
AUG	89	93	68	72	16	1.6	6.9	25	27	31		6.5
SEP	85	88	58	66	33	0.7	8.4	32	28	27		5.3
OCT	77	81	56	60	22	1.2	10.0	28	29	6		6.8
NOV	81	84	67	72	36	0.9	9.0	28	29	26		6.4
DEC	82	84	73	76	26	3.1	9.1	24	14	30		6.8
YEAR	78	82	60	63	25	1.2	10.0	37	29	APR 1		6.3

Month	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	12	6	13	6	1	0	1	0	21	29	4	992.6
FEB	8	6	14	9	2	1	3	0	13	23	7	989.5
MAR	10	10	11	5	0	1	0	0	1	26	0	987.8
APR	5	8	17	13	0	11	0	0	0	7	0	988.2
MAY	7	7	17	8	0	3	0	0	0	2	0	988.8
JUN	6	11	13	10	0	10	0	0	0	0	0	985.8
JUL	7	12	12	7	0	2	2	3	0	0	0	990.2
AUG	7	10	14	13	0	11	1	0	0	0	0	989.5
SEP	9	9	12	7	0	5	3	0	0	0	0	990.2
OCT	8	7	16	9	0	2	5	0	0	10	0	992.2
NOV	10	2	18	9	1	1	6	0	2	20	0	990.9
DEC	8	4	19	8	2	0	2	0	16	29	4	990.2
YEAR	97	92	176	104	6	47	23	3	53	146	15	989.7

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year
(a)				31		31					31		31		31	
J	28.9	11.5	20.2	60	1967	-24	1979	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960
F	32.6	15.3	24.0	68	1976	-22	1976	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966
M	43.1	25.0	34.1	81	1981	-11	1962	958	0	2.65	5.62	1961	0.52	1958	2.50	1976
A	59.1	37.3	48.2	91	1980	9	1975	504	0	3.85	9.92	1973	1.79	1971	5.55	1973
M	70.3	47.2	58.8	95	1975	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.61	1977
J	79.9	57.7	68.8	99	1954	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969
J	84.2	61.4	72.8	103	1955	43	1967	6	247	4.27	11.81	1952	1.14	1981	5.03	1952
A	82.8	60.1	71.5	101	1953	41	1958	16	218	3.66	9.27	1965	0.67	1970	4.24	1972
S	74.7	51.8	63.3	102	1953	28	1976	99	48	4.00	10.68	1961	0.05	1979	5.56	1961
O	64.3	41.1	52.7	90	1971	15	1952	392	11	2.85	8.32	1969	0.01	1952	5.22	1954
N	46.5	28.7	37.6	76	1961	-10	1977	822	0	2.37	4.83	1961	0.38	1976	3.20	1961
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1976	2.24	1971
YR	58.3	37.8	48.1	103	JUL 1955	-24	JAN 1979	6845	714	36.72	11.81	1952	0.01	OCT 1952	5.56	SEP 1961

Month	Precipitation in inches: Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset
(a)	31		31		18	18	18	18	31	13	31	31			31
J	26.1	1979	9.9	1979	77	78	69	73	10.4	WNW	40	27	1980		6.7
F	19.5	1960	10.9	1960	76	78	65	69	10.7	WNW	45	25	1953		6.5
M	22.7	1964	10.4	1972	78	81	61	65	11.6	ENE	46	25	1953		6.8
A	6.7	1970	6.7	1970	75	80	57	57	11.8	WNW	54	11	1953		6.7
M	1.0	1966	T	1976	75	80	53	53	10.6	ENE	47	23	1954		6.2
J	0.0		0.0		78	81	55	55	9.4	SSW	46	30	1974		6.0
J	0.0		0.0		82	85	56	58	8.1	SSW	50	29	1951		5.5
A	0.0		0.0		86	90	59	63	7.9	SSW	48	26	1965		5.7
S	0.0		0.0		85	89	57	64	8.5	SSW	52	20	1961		5.4
O	2.2	1967	2.2	1967	79	84	56	64	9.5	SSW	37	29	1980		5.6
N	14.7	1951	9.5	1951	80	82	65	72	10.3	WNW	46	20	1961		6.8
D	25.1	1978	8.5	1978	81	82	72	77	10.3	WNW	44	29	1970		7.1
YR	26.1	JAN 1979	10.9	FEB 1960	79	82	60	64	9.9	WNW	54	11	APR 1953		6.2

Month	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and above	Min.: 32° and below	0° and below	Average station pressure mb.: Elev. 743 feet m.s.l.
(a)	31	31	31	31	31	31	31	18	18	18	18	9
J	7	7	17	9	3	*	3	0	20	29	10	991.4
F	8	5	15	8	2	1	2	0	15	27	6	991.2
M	6	8	17	11	2	2	3	0	5	24	*	987.9
A	7	7	16	12	*	5	1	*	*	9	0	988.5
M	8	9	14	11	*	5	1	1	0	2	0	987.2
J	7	11	12	10	0	8	1	2	0	0	0	987.4
J	9	13	9	10	0	8	1	5	0	0	0	989.2
A	9	11	11	9	0	6	2	3	0	0	0	990.1
S	10	9	11	9	0	5	2	1	0	*	0	990.6
O	11	7	13	8	*	2	2	*	0	7	0	990.8
N	7	6	17	8	1	1	3	0	3	19	*	990.6
D	7	5	19	10	3	*	3	0	15	27	3	990.5
YR	96	98	171	116	11	43	23	12	58	144	20	989.6

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1942	20.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
1981	21.4	25.9	37.3	51.4	56.3	70.0	72.5	71.2	62.5	48.8	39.4	22.9	48.3
RECORD MEAN	20.6	24.4	35.2	48.2	59.4	69.1	73.8	71.9	64.1	52.4	38.3	25.5	48.6
MAX	29.2	33.0	44.4	59.3	71.1	80.6	85.5	83.4	75.7	63.6	47.1	33.3	58.9
MIN	12.0	15.7	25.9	37.1	47.6	57.6	62.1	60.3	52.4	41.2	29.5	17.7	38.3

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	99	538	796	1222	1346	1089	851	402	275	9	6630
1981-82	9	6	109	493	761	1296							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862
1981	0	0	0	3	15	164	248	202	42	0	0	0	674

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.61	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.49	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.63	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.66	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	6.52	5.19	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.64	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.23	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
1981	0.22	2.40	0.65	5.21	1.84	5.88	1.14	9.18	3.51	2.47	1.63	0.77	34.90
RECORD MEAN	1.70	1.39	2.51	3.48	3.73	4.45	3.72	3.77	3.94	2.74	2.28	1.69	35.36

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7	2.5	9.1	0.6	0.0	0.0	0.0	21.1
1981-82	0.0	0.0	0.0	T	2.8	5.8							
RECORD MEAN	0.0	0.0	0.0	0.1	3.0	8.7	8.3	6.6	6.8	1.4	T	0.0	34.9

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79.

* Type
M = AMOS
T = AUTOB

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Daniel B. Mitchell
Director, National Climatic Center

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Local Climatological Data

Annual Summary With Comparative Data

1980

ROCKFORD, ILLINOIS

Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1976, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 164. The average date of the last 32° temperature in the spring is May 2, and the first in the fall is October 9. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 13, 1975.

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Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS # 94822 — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1980

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	26.8	11.7	19.3	50	11	-6	29	1411	0	1.02	0.42	15-16	5.1	2.7	24	81	82	73	75	27	4.2	11.2	40	27	11		7.3	6	7	18	8	2	0	2	0	23	30	5	992.2
FEB	26.1	8.1	17.1	38	21	-12	12	1380	0	1.07	0.29	25	13.0	4.8	5	78	81	68	68	32	2.1	10.1	32	01	25		6.3	10	4	15	11	3	1	3	0	23	27	11	993.9
MAR	38.9	21.2	30.1	56	31	-9	2	1073	0	0.97	0.27	28-29	4.6	1.8	7-8	78	81	66	70	03	2.2	12.7	33	31	10		7.6	3	9	19	14	2	0	0	0	8	27	1	989.8
APR	57.4	35.4	46.4	91	22	23	16	556	6	2.75	0.96	7-8	5.4	4.3	14-15	74	80	58	60	34	2.7	12.4	29	25	22		7.6	3	10	17	11	1	3	0	1	0	15	0	986.8
MAY	73.8	47.3	60.6	87	28	29	9	184	52	2.37	1.14	28-29	0.0	0.0		72	77	47	50	05	2.0	9.5	29	22	30		5.5	12	6	13	11	0	4	1	0	0	2	0	987.1
JUN	78.5	54.8	66.7	91	26	41	11	63	117	6.06	2.69	7	0.0	0.0		77	78	57	54	20	0.8	9.8	30	32	27		5.9	8	10	12	10	0	10	1	1	0	0	0	988.2
JUL	86.4	64.3	75.4	99	7	54	6	0	329	3.58	1.74	25-26	0.0	0.0		80	81	57	58	20	1.4	9.2	37	36	16		5.4	9	15	7	10	0	10	2	9	0	0	0	987.1
AUG	83.1	64.2	73.7	93	20	54	23	3	278	5.41	1.11	16-17	0.0	0.0		84	86	62	66	15	2.8	8.0	32	25	4		6.1	7	11	13	15	0	13	3	3	0	0	0	988.2
SEP	75.2	53.2	64.2	88	8	39	26	99	80	6.13	2.20	7	0.0	0.0		83	87	58	63	21	2.2	8.0	22	31	9		5.4	11	8	11	11	0	11	1	0	0	0	0	989.8
OCT	58.1	36.5	47.3	80	8	19	29	538	0	1.42	0.69	16-17	0.8	0.8	27	77	81	52	61	28	2.9	10.8	37	29	11		5.5	10	9	12	7	0	3	0	0	0	12	0	989.2
NOV	47.1	29.3	38.2	70	6	17	26	796	0	0.68	0.26	13	1.4	0.9	27-28	71	74	55	62	27	2.5	11.1	28	16	8		6.2	11	6	13	6	0	0	0	0	0	21	0	991.2
DEC	32.5	18.2	25.4	60	6	-11	25	1222	0	2.71	1.40	6-7	6.7	2.8	1-2	76	75	67	69	32	1.7	10.7	31	20	17		8.1	3	5	23	12	2	2	2	0	16	28	5	994.6
YEAR	57.0	37.0	47.0	99	JUL 7	-12	FEB 12	7325	862	34.17	2.69	JUN 7	37.0	4.8	FEB 5	78	80	60	63	28	0.9	10.3	40	27	JAN 11		6.4	93	100	173	126	10	57	15	14	70	162	22	989.8

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb.: Elev. 743 feet m.s.l.
(a)				30		30					30		30		30		30		30		17	17	17	17	30	13	30	30			30	30	30	30	30	30	30	30	17	17	17	17	8
J	28.9	11.5	20.2	60	1967	-24	1979	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960	26.1	1979	9.9	1979	77	78	69	73	10.4	WNW	40	27	1980		6.7	7	7	17	9	3	*	3	0	20	29	11	991.3
F	32.6	15.3	24.0	68	1976	-22	1976	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966	19.5	1960	10.9	1960	76	78	65	69	10.6	WNW	45	25	1953		6.5	8	5	15	8	2	1	2	0	15	27	6	991.4
M	43.1	25.0	34.1	78	1978	-11	1962	958	0	2.65	5.62	1961	0.52	1958	2.50	1976	22.7	1964	10.4	1972	78	81	62	66	11.6	ENE	46	25	1953		6.9	6	8	17	11	2	2	3	0	5	23	*	988.0
A	59.1	37.3	48.2	91	1980	9	1975	504	0	3.85	9.92	1973	1.79	1971	5.55	1973	6.7	1970	6.7	1970	76	80	57	58	11.8	WNW	54	11	1953		6.7	7	7	16	12	*	5	1	*	*	9	0	988.5
M	70.3	47.2	58.8	95	1975	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.61	1977	1.0	1966	T	1976	75	79	53	53	10.5	ENE	47	23	1954		6.2	8	9	14	11	*	6	1	1	0	2	0	987.0
J	79.9	57.7	68.8	99	1954	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969	0.0		0.0		78	81	55	55	9.3	SSW	46	30	1974		6.0	7	11	12	10	0	8	1	2	0	0	0	987.6
J	84.2	61.4	72.8	103	1955	43	1967	6	247	4.27	11.81	1952	1.30	1975	5.03	1952	0.0		0.0		82	85	56	57	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	5	0	0	0	989.0
A	82.8	60.1	71.5	101	1953	41	1958	16	218	3.66	9.27	1965	0.67	1970	4.24	1972	0.0		0.0		86	90	58	62	7.9	SSW	48	26	1965		5.6	9	11	11	9	0	6	2	3	0	0	0	990.2
S	74.7	51.8	63.3	102	1953	28	1976	99	48	4.00	10.68	1961	0.05	1979	5.56	1961	0.0		0.0		85	89	57	64	8.6	SSW	52	20	1961		5.4	10	9	11	9	0	5	2	1	0	*	0	990.7
O	64.3	41.1	52.7	90	1971	15	1952	392	11	2.85	8.32	1969	0.01	1952	5.22	1954	2.2	1967	2.2	1967	80	84	56	64	9.5	SSW	37	29	1980		5.6	11	7	13	8	*	2	2	*	0	6	0	990.6
N	46.5	28.7	37.6	76	1961	-10	1977	822	0	2.37	4.83	1961	0.38	1976	3.20	1961	14.7	1951	9.5	1951	79	82	65	72	10.4	WNW	46	20	1961		6.8	7	6	17	8	1	1	2	0	3	19	*	990.5
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1976	2.24	1971	25.1	1978	8.5	1978	81	82	72	77	10.4	WNW	44	29	1970		7.2	7	5	19	10	3	*	3	0	14	27	3	990.5
YR	58.3	37.8	48.1	103	JUL 1955	-24	JAN 1979	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961	26.1	JAN 1979	10.9	FEB 1960	79	82	61	64	9.9	WNW	54	11	APR 1953		6.2	96	98	171	116	11	43	23	12	58	144	20	989.6

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1941	24.7	27.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	29.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
1980	19.3	17.1	30.1	46.4	60.6	66.7	75.4	73.7	64.2	47.3	38.2	25.4	47.0
RECORD MEAN	20.6	24.4	35.2	48.2	59.4	69.1	73.9	71.9	64.1	52.5	38.3	25.5	48.6
MAX	29.2	33.0	44.4	59.2	71.2	80.6	85.6	83.5	75.7	63.7	47.1	33.3	58.9
MIN	12.0	15.7	25.9	37.1	47.6	57.5	62.0	60.3	52.4	41.3	29.5	17.7	38.3

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	64	461	806	1333	1771	1458	1024	658	245	27	7860
1979-80	9	26	121	450	866	1110	1411	1380	1073	556	184	63	7248
1980-81	0	3	94	538	796	1222							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679
1980	0	0	0	6	52	117	329	278	80	0	0	0	862

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
1980	1.02	1.07	0.97	2.75	2.37	6.06	3.58	5.41	6.13	1.42	0.68	2.71	34.17
RECORD MEAN	1.72	1.38	2.54	3.45	3.76	4.43	3.75	3.70	3.90	2.74	2.29	1.70	35.36

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9	5.1	13.0	4.6	5.4	0.0	0.0	33.9
1980-81	0.0	0.0	0.0	0.8	1.4	6.7							
RECORD MEAN	0.0	0.0	0.0	0.1	3.0	8.8	8.5	6.5	7.0	1.4	T	0.0	35.3

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79.

* Type
M = AMOS
T = AUTOB

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Daniel B. Mitchell
Director, National Climatic Center

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Local Climatological Data

Annual Summary With Comparative Data

1979

ROCKFORD, ILLINOIS

Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1976, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 164. The average date of the last 32° temperature in the spring is May 2, and the first in the fall is October 9. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 13, 1975.

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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS # 94822 — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12′ N — Longitude: 89° 06′ W — Elevation (ground): 724 feet — Year: 1979

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	16.7	-1.3	7.7	35	20	-24	15	1771	0	2.43	0.92	12-13	26.1	9.9	12-13	78	80	72	74	29	4.2	9.8	29	35	13		6.8	6	8	17	12	7	0	1	0	29	31	19	992.2
FEB	21.6	4.1	12.9	39	23	-21	5	1458	0	1.18	0.37	20-21	12.2	4.3	11-12	76	78	67	70	05	1.5	10.7	33	27	21		6.6	7	5	16	11	4	0	3	0	22	28	12	995.9
MAR	39.3	24.0	31.7	65	22	-1	11	1026	0	3.74	0.96	29	4.5	3.6	24	83	84	74	78	23	2.6	12.0	30	21	30		7.7	4	8	19	16	1	3	8	0	8	23	1	988.8
APR	52.6	33.1	42.9	74	23	13	6	658	0	5.20	2.28	25-26	2.0	1.2	27-28	82	86	61	63	05	0.3	11.8	46	29	5		7.7	2	8	20	14	1	6	2	0	0	13	0	989.8
MAY	71.4	45.9	58.7	87	10	30	1	245	56	1.45	0.70	2-3	0.0	0.0		73	79	50	49	21	2.6	11.6	31	19	8		5.7	6	16	9	6	0	4	0	0	0	1	0	988.2
JUN	79.8	56.9	68.4	90	20	43	25	27	134	4.75	1.58	28-29	0.0	0.0		73	77	55	50	21	2.1	10.9	31	23	20		5.7	9	9	12	13	0	11	0	1	0	0	0	989.5
JUL	82.4	60.5	71.5	89	23	45	6	9	217	4.34	1.73	27	0.0	0.0		87	89	56	60	15	1.2	7.0	24	05	4		5.6	7	17	7	9	0	6	4	0	0	0	0	990.9
AUG	79.1	60.8	70.0	92	7	46	16	26	187	6.74	2.04	17-18	0.0	0.0		92	95	71	74	17	1.9	9.3	31	30	4		7.1	3	11	17	14	0	14	2	1	0	0	0	989.8
SEP	76.3	49.7	63.0	85	29	37	23	120	69	0.05	0.04	13	0.0	0.0		90	95	50	63	23	1.5	7.6	22	07	10		3.0	20	5	5	2	0	0	1	0	0	0	0	991.5
OCT	61.0	40.5	50.8	80	21	22	26	450	16	1.55	0.38	1	T	T	23	86	88	61	69	24	2.7	11.2	36	16	31		7.3	4	8	19	13	0	6	6	0	0	5	0	985.8
NOV	44.7	27.0	35.9	68	18	12	11	866	0	2.43	1.08	20-21	4.9	2.5	26	83	85	67	72	24	5.2	10.8	26	09	21		7.3	6	3	21	14	1	0	0	0	5	22	0	990.5
DEC	38.2	19.7	29.0	55	23	-5	17	1110	0	2.24	1.55	23-24	0.9	1.1	30-1	75	78	66	73	25	3.4	10.3	31	36	24		6.4	7	9	15	7	0	0	6	0	9	27	3	992.6
YEAR	55.3	35.1	45.2	92	AUG 7	-24	JAN 15	7766	679	36.10	2.28	APR 25-26	50.6	9.9	JAN 12-13	82	85	63	66	23	1.8	10.3	46	29	APR 5		6.4	81	107	177	131	14	50	33	2	73	150	35	990.5

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
(a)				29		29					29		29		29		29		29		16	16	16	16	29	13	29	29			29	29	29	29	29	29	29	29	16	16	16	16	7
J	28.9	11.5	20.2	60	1967	-24	1979	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960	26.1	1979	9.9	1979	77	78	69	73	10.4	WNW	40	27	1972		6.7	7	7	17	9	3	*	3	0	20	29	11	991.1
F	32.6	15.3	24.0	68	1976	-22	1976	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966	19.5	1960	10.9	1960	76	78	65	69	10.6	WNW	45	25	1953		6.5	8	5	15	8	2	*	2	0	15	27	5	991.0
M	43.1	25.0	34.1	78	1978	-11	1962	958	0	2.65	5.62	1961	0.52	1958	2.50	1976	22.7	1964	10.4	1972	78	81	62	65	11.6	ENE	46	25	1953		6.9	6	8	17	11	2	2	3	0	5	23	*	987.7
A	59.1	37.3	48.2	88	1977	9	1975	504	0	3.85	9.92	1973	1.79	1971	5.55	1973	6.7	1970	6.7	1970	76	80	57	58	11.7	WNW	54	11	1953		6.6	7	8	15	12	*	5	1	0	*	9	0	988.7
M	70.3	47.2	58.8	95	1975	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.61	1977	1.0	1966	T	1976	76	80	53	54	10.6	ENE	47	23	1954		6.2	8	9	14	11	*	6	1	1	0	2	0	986.9
J	79.9	57.7	68.8	99	1954	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969	0.0		0.0		78	81	55	55	9.3	SSW	46	30	1974		6.0	7	11	12	10	0	8	1	2	0	0	0	987.6
J	84.2	61.4	72.8	103	1955	43	1967	6	247	4.27	11.81	1952	1.30	1975	5.03	1952	0.0		0.0		82	85	56	57	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	5	0	0	0	989.3
A	82.8	60.1	71.5	101	1953	41	1958	16	218	3.66	9.27	1965	0.67	1970	4.24	1972	0.0		0.0		86	90	58	62	7.9	SSW	48	26	1965		5.6	9	11	11	9	0	6	2	3	0	0	0	990.5
S	74.7	51.8	63.3	102	1953	28	1976	99	48	4.00	10.68	1961	0.05	1979	5.56	1961	0.0		0.0		85	89	57	64	8.6	SSW	52	20	1961		5.4	10	9	11	9	0	5	2	1	0	*	0	990.8
O	64.3	41.1	52.7	90	1971	15	1952	392	11	2.85	8.32	1969	0.01	1952	5.22	1954	2.2	1967	2.2	1967	80	85	56	64	9.5	SSW	37	25	1961		5.6	11	7	13	8	*	2	2	*	0	6	0	990.8
N	46.5	28.7	37.6	76	1961	-10	1977	822	0	2.37	4.83	1961	0.38	1976	3.20	1961	14.7	1951	9.5	1951	80	83	65	72	10.4	WNW	46	20	1961		6.9	7	6	17	8	1	1	3	0	3	19	*	990.4
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1976	2.24	1971	25.1	1978	8.5	1978	81	83	73	77	10.4	WNW	44	29	1970		7.1	7	5	19	10	3	*	3	0	14	27	3	989.9
YR	58.3	/ 37.8	48.1	103	JUL 1955	-24	JAN 1979	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961	26.1	JAN 1979	10.9	FEB 1960	79	83	61	64	9.9	WNW	54	11	APR 1953		6.2	96	99	170	116	11	43	24	12	57	143	20	989.6

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Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
1979	7.7	12.9	31.7	42.9	58.7	68.4	71.5	70.0	63.0	50.8	35.9	29.0	45.2
RECORD MEAN	20.6	24.5	35.2	48.2	59.4	69.1	73.8	71.9	64.1	52.6	38.3	25.5	48.6
MAX	29.2	33.1	44.4	59.2	71.1	80.6	85.6	83.5	75.7	63.8	47.1	33.3	58.9
MIN	12.0	15.8	26.0	37.1	47.6	57.6	62.0	60.2	52.4	41.4	29.5	17.7	38.3

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333	1771	1458	1026	658	245	27	7860
1979-80	9	26	120	450	866	1110							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859
1979	0	0	0	0	56	134	217	187	69	16	0	0	679

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
1979	2.43	1.18	3.74	5.20	1.45	4.75	4.34	6.74	0.05	1.55	2.43	2.24	36.10
RECORD MEAN	1.73	1.38	2.56	3.46	3.78	4.40	3.75	3.68	3.87	2.76	2.31	1.69	35.37

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1	26.1	12.2	4.5	2.0	0.0	0.0	74.5
1979-80	0.0	0.0	0.0	T	4.9	0.9							
RECORD MEAN	0.0	0.0	0.0	0.1	3.0	8.8	8.6	6.3	7.1	1.3	T	0.0	35.2

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5	NA	e20	b6	c4	d4	NA	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter. e - Installed 4/25/79.

* Type
M = AMOS
T = AUTOB

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

David B. Mitchell
Director, National Climatic Center

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Local Climatological Data

Annual Summary With Comparative Data

1978

ROCKFORD, ILLINOIS

Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1976, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 164. The average date of the last 32° temperature in the spring is May 2, and the first in the fall is October 9. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 13, 1975.

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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS # 94822 — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1978

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct.: Hour 00 (Local time)	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	20.1	2.5	11.3	37	7	-13	30	1658	0	0.78	0.47	31-1	10.0	6.1	31-1	78	80	72	75	31	5.7	10.1	33	30	26		6.1	11	3	17	9	4	0	3	0	26	30	17	993.9
FEB	22.0	2.6	12.3	37	24	-11	19	1471	0	0.47	0.17	1	6.9	2.3	1	77	80	68	71	31	2.6	7.8	24	04	13		6.3	7	8	13	8	2	0	1	0	27	28	14	995.3
MAR	38.0	20.5	29.3	78	31	-9	5	1101	0	0.86	0.36	25	4.2	1.9	2-3	78	83	64	68	34	1.1	9.3	29	05	24		6.8	8	6	17	8	2	0	5	0	11	26	3	991.5
APR	59.1	35.8	47.5	74	7	25	22	519	0	3.29	0.98	9-10	T	T	2	72	78	51	52	05	2.1	11.5	30	09	2		6.5	9	5	16	13	0	7	0	0	0	7	0	988.5
MAY	70.1	47.6	58.9	92	27	27	1	259	75	3.84	2.53	12-13	0.0	0.0		75	81	55	53	09	1.3	9.9	29	06	4		6.8	6	9	16	10	0	5	0	3	0	4	0	987.1
JUN	81.1	57.1	69.1	93	11	42	13	29	160	5.63	3.00	25-26	0.0	0.0		73	77	48	49	22	3.3	8.5	25	19	11		6.2	8	9	13	10	0	10	0	2	0	0	0	989.5
JUL	81.3	63.3	72.3	90	6	51	31	2	238	7.41	3.12	1-2	0.0	0.0		86	86	63	69	19	2.1	7.2	29	27	22		6.9	7	10	14	14	0	11	4	1	0	0	0	988.8
AUG	82.3	61.0	71.7	89	15	47	4	7	220	2.65	0.96	18-19	0.0	0.0		88	91	57	64	19	2.8	6.7	22	32	28		5.0	10	12	9	10	0	9	3	0	0	0	0	990.9
SEP	80.5	55.7	68.1	95	8	38	28	66	166	4.33	2.60	12-13	0.0	0.0		90	93	56	64	20	1.7	7.1	23	18	17		4.6	12	9	9	10	0	7	2	0	0	0	0	990.5
OCT	61.2	38.5	49.9	81	21	28	17	461	0	0.87	0.30	2-3	0.0	0.0		87	92	57	71	24	3.2	9.0	23	28	5		6.3	8	6	17	10	0	2	1	0	0	6	0	991.2
NOV	46.9	28.9	37.9	75	3	8	30	806	0	2.46	0.86	16-17	4.6	2.6	26-27	82	85	65	73	28	1.4	9.8	24	24	17		6.7	7	7	16	13	2	0	0	0	4	20	0	993.6
DEC	29.1	14.6	21.9	39	18	-12	10	1333	0	2.76	0.65	30-31	25.1	8.5	31	83	85	75	79	25	3.2	12.4	29	28	16		6.9	8	3	20	14	5	0	2	0	16	31	3	989.5
YEAR	56.0	35.7	45.9	95	SEP 8	-13	JAN 30	7712	859	35.35	3.12	JUL 1-2	50.8	8.5	DEC 31	81	84	61	66	26	1.3	9.1	33	30	JAN 26		6.3	101	87	177	129	15	51	21	12	84	152	37	990.9

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct.: Hour 00 (Local time)	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb.: Elev. 743 feet m.s.l.
(a)				28		28					28		28		28		28		28		15	15	15	15	28	13	28	28			28	28	28	28	28	28	28	28	15	15	15	15	6
J	28.9	11.5	20.2	60	1967	-22	1977	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960	21.4	1959	9.3	1966	77	77	69	73	10.4	WNW	40	27	1972		6.7	7	7	17	9	3	*	3	0	19	29	10	991.0
F	32.6	15.3	24.0	68	1976	-22	1976	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966	19.5	1960	10.9	1960	76	78	65	69	10.6	WNW	45	25	1953		6.5	8	5	15	8	2	1	2	0	14	27	5	990.2
M	43.1	25.0	34.1	78	1978	-11	1962	958	0	2.65	5.62	1961	0.52	1958	2.50	1976	22.7	1964	10.4	1972	77	80	61	64	11.6	ENE	46	25	1953		6.9	6	8	17	11	2	2	3	0	5	23	*	987.5
A	59.1	37.3	48.2	88	1977	9	1975	504	0	3.85	9.92	1973	1.79	1971	5.55	1973	6.7	1970	6.7	1970	75	80	57	57	11.7	WNW	54	11	1953		6.6	7	8	15	12	*	5	1	0	*	9	0	988.6
M	70.3	47.2	58.8	95	1975	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.61	1977	1.0	1966	T	1976	76	80	54	54	10.5	ENE	47	23	1954		6.2	8	9	14	11	*	6	1	1	0	2	0	986.7
J	79.9	57.7	68.8	99	1954	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969	0.0		0.0		78	81	55	55	9.3	SSW	46	30	1974		6.0	7	11	12	10	0	8	1	2	0	0	0	987.2
J	84.2	61.4	72.8	103	1955	43	1967	6	247	4.27	11.81	1952	1.30	1975	5.03	1952	0.0		0.0		82	85	56	57	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	5	0	0	0	989.1
A	82.8	60.1	71.5	101	1953	41	1958	16	218	3.66	9.27	1965	0.67	1970	4.24	1972	0.0		0.0		86	90	57	61	7.9	SSW	48	26	1965		5.6	9	11	11	9	0	6	2	3	0	0	0	990.6
S	74.7	51.8	63.3	102	1953	28	1976	99	48	4.00	10.68	1961	0.35	1974	5.56	1961	0.0		0.0		85	89	58	64	8.6	SSW	52	20	1961		5.4	10	9	11	9	0	5	2	1	0	*	0	990.7
O	64.3	41.1	52.7	90	1971	15	1952	392	11	2.85	8.32	1969	0.01	1952	5.22	1954	2.2	1967	2.2	1967	79	84	56	64	9.4	SSW	37	25	1961		5.5	11	7	13	8	*	2	2	*	0	6	0	991.7
N	46.5	28.7	37.6	76	1961	-10	1977	822	0	2.37	4.83	1961	0.38	1976	3.20	1961	14.7	1951	9.5	1951	80	83	65	72	10.4	WNW	46	20	1961		6.9	7	6	17	8	1	1	3	0	3	19	*	990.4
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1976	2.24	1971	25.1	1978	8.5	1978	81	83	73	78	10.4	WNW	44	29	1970		7.2	7	5	19	10	3	*	3	0	15	27	3	989.5
YR	58.3	37.8	48.1	103	JUL 1955	-22	JAN 1977	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961	25.1	DEC 1978	10.9	FEB 1960	79	83	60	64	9.9	WNW	54	11	APR 1953		6.2	96	99	170	115	11	43	23	13	56	143	19	989.4

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted. based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.4	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	35.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	34.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
1978	11.3	12.3	29.3	47.5	58.9	69.1	72.3	71.7	68.1	49.9	37.9	21.9	45.9
RECORD MEAN	20.8	24.6	35.3	48.3	59.4	69.1	73.8	71.9	64.1	52.6	38.4	25.5	48.6
MAX	29.4	33.2	44.5	59.3	71.1	80.6	85.6	83.5	75.7	63.8	47.1	33.3	58.9
MIN	12.2	15.9	26.0	37.2	47.6	57.6	62.0	60.2	52.4	41.4	29.6	17.7	38.3

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393	1658	1471	1101	519	259	29	7875
1978-79	2	7	66	461	806	1333							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847
1978	0	0	0	0	75	160	238	220	166	0	0	0	859

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.08	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.90	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
1978	0.78	0.47	0.86	3.29	3.84	5.63	7.41	2.65	4.33	0.87	2.46	2.76	35.35
RECORD MEAN	1.72	1.38	2.54	3.44	3.81	4.40	3.74	3.64	3.93	2.78	2.31	1.68	35.37

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	9.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3	10.0	6.9	4.2	T	0.0	0.0	51.7
1978-79	0.0	0.0	0.0	0.0	4.6	25.1							
RECORD MEAN	0.0	0.0	0.0	0.1	3.0	9.1	7.9	6.1	7.2	1.2	T	0.0	34.6

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Remarks
COOPERATIVE															
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3		Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3		Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3		Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3		Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3		Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3		New residence.
AIRPORT															
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3		Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5			b6	c4	d4	First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter.

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Daniel B. Mitchell
Director, National Climatic Center

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al Climatological Data

Summary With Comparative Data

1977

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Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1976, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 164. The average date of the last 32° temperature in the spring is May 2, and the first in the fall is October 9. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 13, 1975.

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS # 94822 — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12′ N — Longitude: 89° 06′ W — Elevation (ground): 724 feet — Year: 1977

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	15.2	-3.5	5.9	30	26	-22	16	1830	0	0.61	0.12	19-20	8.8	1.5	19-20	68	70	62	66	28	7.8	11.8	32	28	28		6.0	9	10	12	12	3	0	1	0	31	31	21	990.2
FEB	32.9	14.0	23.5	55	23	-15	6	1158	0	0.64	0.27	23-24	4.3	3.3	4	72	77	59	65	27	4.6	10.6	32	27	25		6.2	9	4	15	5	1	1	3	0	14	26	6	987.5
MAR	51.7	32.7	42.2	71	26	17	22	697	0	3.52	1.33	28-29	7.2	4.2	21	74	78	56	59	20	4.2	12.9	40	18	28		6.5	6	11	14	14	2	0	2	0	0	16	0	985.4
APR	68.1	42.0	55.1	88	18	23	6	318	31	2.39	0.87	27-28	0.8	0.8	4-5	66	70	43	42	24	1.2	11.6	35	25	2		5.9	8	10	12	12	0	4	1	0	0	7	0	989.8
MAY	81.0	55.4	68.2	90	28	32	10	73	180	5.47	3.61	15	0.0	0.0		66	74	43	44	15	2.4	9.0	31	22	22		4.9	12	10	9	10	0	11	1	3	0	1	0	989.8
JUN	79.2	55.5	67.4	93	4	43	3	42	120	4.67	1.90	5	0.0	0.0		75	77	52	53	26	0.7	9.2	31	34	5		6.7	5	12	13	7	0	5	1	1	0	0	0	987.8
JUL	86.1	64.7	75.4	98	14	53	27	0	330	4.73	3.25	17-18	0.0	0.0		78	81	55	56	21	3.2	8.9	25	22	15		4.4	15	9	7	11	0	10	0	9	0	0	0	990.5
AUG	77.9	59.3	68.6	90	27	47	25	20	138	5.31	1.56	8	0.0	0.0		85	89	64	68	21	3.0	7.0	23	32	8		7.1	4	10	17	16	0	8	6	1	0	0	0	989.5
SEP	72.9	53.9	63.4	86	4	40	21	88	48	3.91	1.37	17-18	0.0	0.0		87	90	66	70	20	0.7	7.6	25	28	26		7.2	6	5	19	14	0	8	6	0	0	0	0	988.5
OCT†	59.8	38.3	49.1	73	21	27	13	488	0	2.26	0.93	7-8	0.0	0.0		83	85	57	69	25	1.0	9.7	24	26	11		6.2	10	6	15	10	0	1	† 5	0	0	6	0	991.2
NOV	44.2	28.8	36.5	71	3	-10	26	849	0	2.63	1.81	1-2	7.3	4.0	24-25	77	80	65	71	24	1.9	10.4	27	18	20		7.3	6	6	18	11	2	1	1	0	7	20	3	989.8
DEC	27.2	12.5	19.9	50	17	-13	11	1393	0	1.87	0.55	19-20	23.3	6.0	8	80	81	74	76	25	3.8	10.5	28	34	24		7.4	5	7	19	9	7	0	2	0	20	29	8	986.5
YEAR	58.0	37.8	47.9	98	JUL 14	-22	JAN 16	6956	847	38.01	3.61	MAY 15	51.7	6.0	DEC 8	76	79	58	62	24	2.3	9.9	40	18	MAR 28		6.3	95	100	170	131	15	49	29	14	72	136	38	988.9

† DATA CORRECTED AFTER PUBLICATION OF THE MONTHLY ISSUE.

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
(a)				27		27					27		27		27		27		27		14	14	14	14	27	13	27	27			27	27	27	27	27	27	27	27	14	14	14	14	5
J	28.9	11.5	20.2	60	1967	-22	1977	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960	21.4	1959	9.3	1966	77	77	69	73	10.4	WNW	40	27	1972		6.7	7	7	17	9	3	*	3	0	19	29	10	990.4
F	32.6	15.3	24.0	68	1976	-22	1976	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966	19.5	1960	10.9	1960	76	78	65	69	10.7	WNW	45	25	1953		6.5	8	5	15	8	2	1	2	0	13	27	4	989.2
M	43.1	25.0	34.1	76	1967	-11	1962	958	0	2.65	5.62	1961	0.52	1958	2.50	1976	22.7	1964	10.4	1972	77	80	61	64	11.6	ENE	46	25	1953		6.8	6	8	17	11	2	2	3	0	4	23	0	986.7
A	59.1	37.3	48.2	88	1977	9	1975	504	0	3.85	9.92	1973	1.79	1971	5.55	1973	6.7	1970	6.7	1970	76	80	57	58	11.7	WNW	54	11	1953		6.6	7	8	15	12	*	4	1	0	*	9	0	988.6
M	70.3	47.2	58.8	95	1975	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.61	1977	1.0	1966	T	1976	76	80	54	54	10.6	ENE	47	23	1954		6.2	8	9	14	11	*	6	1	1	0	1	0	986.7
J	79.9	57.7	68.8	99	1954	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969	0.0		0.0		78	81	55	55	9.3	SSW	46	30	1974		6.0	7	11	12	10	0	8	1	3	0	0	0	986.8
J	84.2	61.4	72.8	103	1955	43	1967	6	247	4.27	11.81	1952	1.30	1975	5.03	1952	0.0		0.0		82	85	55	56	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	6	0	0	0	989.1
A	82.8	60.1	71.5	101	1953	41	1958	16	218	3.66	9.27	1965	0.67	1970	4.24	1972	0.0	.	0.0		85	90	57	61	7.9	SSW	48	26	1965		5.6	9	11	11	8	0	6	2	3	0	0	0	990.6
S	74.7	51.8	63.3	102	1953	28	1976	99	48	4.00	10.68	1961	0.35	1974	5.56	1961	0.0		0.0		85	89	58	64	8.7	SSW	52	20	1961		5.5	10	9	11	9	0	5	2	1	0	1	0	990.7
O	64.3	41.1	52.7	90	1971	15	1952	392	11	2.85	8.32	1969	0.01	1952	5.22	1954	2.2	1967	2.2	1967	79	84	56	63	9.4	SSW	37	25	1961		5.5	11	8	12	8	*	2	2	*	0	6	0	991.7
N	46.5	28.7	37.6	76	1961	-10	1977	822	0	2.37	4.83	1961	0.38	1976	3.20	1961	14.7	1951	9.5	1951	80	83	65	72	10.4	WNW	46	20	1961		6.9	7	6	17	8	1	1	3	0	3	19	*	989.8
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1976	2.24	1971	23.3	1977	8.0	1954	81	83	73	77	10.3	WNW	44	29	1970		7.2	7	5	19	10	3	*	3	0	15	27	3	989.5
YR	58.3	37.8	48.1	103	JUL 1955	-22	JAN 1977	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961	23.3	DEC 1977	10.9	FEB 1960	79	82	60	64	9.9	WNW	54	11	APR 1953		6.2	96	100	169	115	11	42	23	13	54	142	18	989.2

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
1977	5.9	23.5	42.2	55.1	68.2	67.4	75.4	68.6	63.4	49.1	36.5	19.9	47.9
RECORD MEAN	20.9	24.8	35.4	48.3	59.4	69.1	73.9	71.9	64.0	52.6	38.4	25.5	48.7
MAX	29.5	33.4	44.6	59.3	71.1	80.6	85.7	83.5	75.6	63.8	47.1	33.3	59.0
MIN	12.3	16.1	26.1	37.2	47.6	57.6	62.0	60.2	52.4	41.4	29.6	17.7	38.4

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545	1830	1158	697	318	73	42	7571
1977-78	0	20	88	488	849	1393							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626
1977	0	0	0	31	180	120	330	138	48	0	0	0	847

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
1977	0.61	0.64	3.52	2.39	5.47	4.67	4.73	5.31	3.91	2.26	2.63	1.87	38.01
RECORD MEAN	1.73	1.40	2.56	3.44	3.81	4.38	3.69	3.65	3.92	2.81	2.31	1.67	35.37

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8	8.8	4.3	7.2	0.8	0.0	0.0	31.4
1977-78	0.0	0.0	0.0	0.0	7.3	23.3							
RECORD MEAN	0.0	0.0	0.0	0.1	2.9	8.5	7.9	6.1	7.3	1.3	T	0.0	34.1

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5			b6	c4	d4		First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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Daniel B. Mitchell
Director, National Climatic Center

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ROCKFORD, ILLINOIS

Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS # 94822 — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1976

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	26.6	6.3	16.5	38	28	-14	8	1499	0	0.59	0.16	25-26	6.6	1.6	25-26	78	78	68	70	26	4.3	12.3	27	17	15		5.9	9	7	15	14	1	0	0	0	22	31	11	991.2
FEB	40.9	20.6	30.8	68	27	-22	2	986	0	1.41	0.63	20-21	1.8	1.4	21	77	81	60	64	26	2.6	11.7	29	05	21		6.4	7	9	13	8	1	3	1	0	7	25	3	987.5
MAR	49.2	27.8	38.5	74	19	11	17	813	0	4.94	2.50	4	0.3	0.2	12	79	82	58	61	24	4.0	14.1	33	22	24		7.4	3	9	19	9	0	7	1	0	1	23	0	985.8
APR	61.8	37.6	49.7	84	17	23	12	473	21	3.60	0.87	23-24	0.3	0.3	4	72	77	51	49	11	1.1	11.6	35	04	25		5.6	9	9	12	13	0	4	0	0	0	13	0	990.5
MAY	67.2	43.4	55.3	79	20	28	7	296	3	2.38	0.87	30	T	T	3	70	71	49	47	03	1.2	10.4	32	23	5		5.8	11	6	14	10	0	2	1	0	0	5	0	987.8
JUN	81.2	56.3	68.8	94	13	46	20	16	137	2.16	1.25	12-13	0.0	0.0		72	73	47	46	20	2.3	10.0	31	23	27		5.1	12	9	9	9	0	6	0	3	0	0	0	988.5
JUL	86.0	60.7	73.4	97	14	46	1	2	270	2.05	0.86	27-28	0.0	0.0		75	75	46	45	24	2.1	8.8	29	03	30		4.9	13	10	8	8	0	8	1	7	0	0	0	988.8
AUG	82.1	56.6	69.4	94	27	45	16	17	159	2.04	0.75	5-6	0.0	0.0		78	82	45	49	17	1.9	7.9	20	28	28		4.6	14	7	10	7	0	6	0	2	0	0	0	993.2
SEP	74.1	45.8	60.0	89	8	28	24	174	31	1.39	0.60	8-9	0.0	0.0		74	80	43	48	30	1.1	7.9	22	22	3		4.6	14	8	8	4	0	2	2	0	0	2	0	991.2
OCT	56.5	33.6	45.1	86	3	17	28	615	5	1.94	1.27	4-5	T	T	26	78	83	48	56	31	2.0	9.4	27	21	14		5.8	10	6	15	7	0	0	1	0	0	13	0	991.9
NOV	39.1	17.0	28.1	61	18	-6	29	1100	0	0.38	0.31	26-27	4.5	3.7	26-27	74	79	52	59	28	6.5	10.4	27	30	9		5.3	10	8	12	4	2	0	0	0	9	29	3	990.5
DEC	25.5	4.4	15.0	43	19	-16	31	1545	0	0.37	0.15	5-6	5.8	2.3	5-6	71	72	63	68	27	4.5	10.6	29	31	23		6.3	8	9	14	10	2	0	3	0	20	31	11	989.5
YEAR	57.5	34.2	45.9	97	JUL 14	-22	FEB 2	7536	626	23.25	2.50	MAR 4	19.3	3.7	NOV 26-27	75	78	53	55	26	2.1	10.4	35	04	APR 25		5.6	120	97	149	103	6	38	10	12	59	172	28	989.7

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
(a)				26		26					26		26		26		26		26		13	13	13	13	26	13	26	26			26	26	26	26	26	26	26	26	13	13	13	13	4
J	28.9	11.5	20.2	60	1967	-22	1970	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960	21.4	1959	9.3	1966	78	78	69	74	10.4	WNW	40	27	1972		6.7	7	7	17	9	3	*	3	0	18	29	9	990.4
F	32.6	15.3	24.0	68	1976	-22	1976	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966	19.5	1960	10.9	1960	76	78	65	69	10.7	WNW	45	25	1953		6.5	8	5	15	8	2	1	2	0	13	27	4	989.6
M	43.1	25.0	34.1	76	1967	-11	1962	958	0	2.65	5.62	1961	0.52	1958	2.50	1976	22.7	1964	10.4	1972	78	80	61	65	11.6	ENE	46	25	1953		6.9	6	8	17	11	2	2	3	0	5	24	0	987.1
A	59.1	37.3	48.2	87	1952	9	1975	504	0	3.85	9.92	1973	1.79	1971	5.55	1973	6.7	1970	6.7	1970	76	81	58	59	11.8	WNW	54	11	1953		6.6	7	8	15	12	*	4	1	0	*	9	0	988.3
M	70.3	47.2	58.8	95	1975	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.44	1974	1.0	1966	T	1976	77	80	54	55	10.6	ENE	47	23	1954		6.3	8	9	14	12	*	5	1	*	0	1	0	985.9
J	79.9	57.7	68.8	99	1954	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969	0.0		0.0		78	82	56	56	9.3	SSW	46	30	1974		6.0	7	11	12	10	0	8	1	3	0	0	0	986.5
J	84.2	61.4	72.8	103	1955	43	1967	6	247	4.27	11.81	1952	1.30	1975	5.03	1952	0.0		0.0		82	85	55	56	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	6	0	0	0	988.8
A	82.8	60.1	71.5	101	1953	41	1958	16	218	3.66	9.27	1965	0.67	1970	4.24	1972	0.0		0.0		85	90	57	61	7.9	SSW	48	26	1965		5.5	9	11	11	8	0	5	2	3	0	0	0	990.8
S	74.7	51.8	63.3	102	1953	28	1976	99	48	4.00	10.68	1961	0.35	1974	5.56	1961	0.0		0.0		84	89	57	63	8.7	SSW	52	20	1961		5.4	10	9	11	9	0	5	1	1	0	1	0	991.3
O	64.3	41.1	52.7	90	1971	15	1952	392	11	2.85	8.32	1969	0.01	1952	5.22	1954	2.2	1967	2.2	1967	78	84	55	63	9.4	SSW	37	25	1961		5.4	11	8	12	8	*	2	2	*	0	6	0	991.9
N	46.5	28.7	37.6	76	1961	-6	1976	822	0	2.37	4.83	1961	0.38	1976	3.20	1961	14.7	1951	9.5	1951	80	83	65	72	10.4	WNW	46	20	1961		6.8	7	6	17	8	1	1	3	0	3	19	*	989.8
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1976	2.24	1971	20.0	1973	8.0	1954	81	83	73	78	10.3	WNW	44	29	1970		7.2	7	5	19	10	3	*	3	0	14	27	3	990.3
YR	58.3	37.8	48.1	103	JUL 1955	-22	FEB 1976	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961	22.7	MAR 1964	10.9	FEB 1960	80	83	61	64	9.9	WNW	54	11	APR 1953		6.2	96	100	169	114	11	42	23	13	53	142	16	989.2

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.8	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	24.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
1976	16.5	30.8	38.5	49.7	55.3	68.8	73.4	69.4	60.0	45.1	28.1	15.0	45.9
RECORD MEAN	21.1	24.8	35.3	48.2	59.3	69.1	73.9	71.9	64.0	52.7	38.4	25.6	48.7
MAX	29.7	33.4	44.5	59.2	71.0	80.4	85.7	83.6	75.7	63.9	47.2	33.4	59.0
MIN	12.5	16.1	26.0	37.1	47.5	57.4	62.0	60.2	52.3	41.4	29.6	17.8	38.3

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172	1499	986	813	473	296	16	6546
1976-77	2	17	174	615	1100	1545							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844
1976	0	0	0	21	3	137	270	159	31	5	0	0	626

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.08	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
1976	0.59	1.41	4.94	3.60	2.38	2.16	2.05	2.04	1.39	1.94	0.38	0.37	23.25
RECORD MEAN	1.75	1.41	2.55	3.46	3.79	4.33	3.68	3.63	3.92	2.81	2.30	1.66	35.34

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9	6.6	1.8	0.3	0.3	T	0.0	23.3
1976-77	0.0	0.0	0.0	T	4.5	5.8							
RECORD MEAN	0.0	0.0	0.0	0.1	2.8	8.0	7.8	6.1	7.3	1.3	T	0.0	33.4

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5			b6	c4	d4		First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

Daniel B. Mitchell
Director, National Climatic Center

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Climatological Data

Summary With Comparative Data

Map

1975

ROCKFORD, ILLINOIS

Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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Meteorological Data For The Current Year

Station: ROCKFORD, ILLINOIS — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1975

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	31.5	15.5	23.5	55	10	-5	20	1277	0	2.38	1.08	9-10	4.2	1.2	2	79	78	69	73	24	4.8	11.6	37	22	11		8.0	3	6	22	13	1	1	2	0	16	29	5	988.5
FEB	30.1	16.1	23.1	42	21	-13	9	1166	0	2.03	0.56	23-24	18.6	7.4	14-15	75	75	66	69	32	2.5	11.0	32	28	25		7.5	3	8	17	15	5	0	0	0	14	28	5	989.2
MAR	37.2	21.1	29.2	61	21	4	9	1107	0	2.81	0.90	6-7	8.4	5.5	6	77	80	65	66	33	1.8	10.7	30	09	23		7.2	4	10	17	14	1	3	2	0	12	25	0	988.2
APR	52.1	32.9	42.5	77	23	9	4	668	0	2.39	1.24	27-28	4.6	4.6	2	72	78	57	57	07	3.4	11.0	32	26	19		7.1	6	7	17	8	1	4	0	0	2	14	0	990.9
MAY	74.2	50.6	62.4	95	19	35	13	150	75	3.03	1.06	20-21	0.0	0.0		73	76	50	52	14	0.7	8.2	24	16	24		6.5	6	10	15	16	0	7	0	2	0	0	0	986.8
JUN	80.9	60.1	70.5	90	22	45	2	29	201	4.68	1.24	4	0.0	0.0		78	79	58	60	19	2.7	8.6	35	31	13		6.6	4	13	13	12	0	12	1	3	0	0	0	987.1
JUL	84.6	61.6	73.1	94	31	48	11	12	273	1.30	0.37	6	0.0	0.0		79	80	50	53	25	2.4	7.2	24	21	23		4.3	15	9	7	7	0	6	0	5	0	0	0	988.5
AUG	82.8	63.4	73.1	93	21	52	8	0	258	4.08	1.21	2	0.0	0.0		78	82	56	60	16	1.1	8.9	31	26	13		6.9	6	8	17	12	0	9	0	6	0	0	0	990.5
SEP	69.9	46.1	58.0	84	1	32	27	225	22	0.91	0.50	5	0.0	0.0		81	87	53	59	27	1.4	8.9	30	35	11		6.0	9	10	11	5	0	0	2	0	0	3	0	992.2
OCT	66.9	39.2	53.1	87	13	24	30	376	15	0.98	0.45	14	0.0	0.0		74	79	44	52	20	3.6	10.4	27	18	24		4.4	12	11	8	3	0	2	0	0	0	5	0	991.5
NOV	52.1	32.2	42.2	68	9	11	28	678	0	4.24	1.54	29-30	6.4	4.4	26-27	81	82	66	75	21	3.8	11.2	38	23	30		6.8	9	3	18	12	2	3	7	0	3	15	0	989.2
DEC	33.9	20.0	27.0	63	5	-2	18	1172	0	1.95	1.19	13-14	7.9	5.9	29-30	79	81	73	76	32	1.0	10.9	28	27	1		8.3	4	3	24	8	3	1	3	0	18	28	1	992.9
YEAR	58.0	38.2	48.1	95	MAY 19	-13	FEB 9	6860	844	30.78	1.54	NOV 29-30	50.1	7.4	FEB 14-15	77	80	59	63	23	1.1	9.9	38	23	NOV 30		6.6	81	98	186	125	13	48	17	16	65	147	11	989.6

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
(a)				12		12					25		25		25		25		25		12	12	12	12	25	13	25	25			25	25	25	25	25	25	25	25	12	12	12	12	3
J	28.9	11.5	20.2	60	1967	-22	1970	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960	21.4	1959	9.3	1966	78	78	69	74	10.3	WNW	40	27	1972		6.7	7	7	17	9	3	*	3	0	18	29	9	990.2
F	32.6	15.3	24.0	55	1965	-16	1972	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966	19.5	1960	10.9	1960	76	78	65	69	10.7	WNW	45	25	1953		6.5	8	5	15	8	2	*	2	0	14	27	4	990.3
M	43.1	25.0	34.1	76	1967	1	1974	958	0	2.65	5.62	1961	0.52	1958	1.83	1973	22.7	1964	10.4	1972	78	80	62	65	11.5	ENE	46	25	1953		6.8	6	8	17	11	2	2	3	0	5	24	0	987.5
A	59.1	37.3	48.2	86	1970	9	1975	504	0	3.85	9.92	1973	1.79	1971	5.55	1973	6.7	1970	6.7	1970	77	81	59	60	11.8	WNW	54	11	1953		6.7	7	7	16	12	*	4	2	0	*	9	0	987.5
M	70.3	47.2	58.8	95	1975	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.44	1974	1.0	1966	T	1967	77	81	55	56	10.6	ENE	47	23	1954		6.3	8	9	14	12	*	6	1	*	0	1	0	985.2
J	79.9	57.7	68.8	98	1971	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969	0.0		0.0		79	82	56	56	9.3	SSW	46	30	1974		6.0	7	11	12	11	0	8	1	3	0	0	0	985.9
J	84.2	61.4	72.8	99	1965	43	1967	6	247	4.27	11.81	1952	1.30	1975	5.03	1952	0.0		0.0		82	86	56	57	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	5	0	0	0	988.7
A	82.8	60.1	71.5	94	1973	43	1965	16	218	3.66	9.27	1965	0.67	1970	4.24	1972	0.0		0.0		86	90	58	62	7.9	SSW	48	26	1965		5.6	9	11	11	8	0	5	2	4	0	0	0	990.0
S	74.7	51.8	63.3	92	1971	29	1974	99	48	4.00	10.68	1961	0.35	1974	5.56	1961	0.0		0.0		85	89	58	64	8.7	SSW	52	20	1961		5.4	10	9	11	9	0	5	1	1	0	*	0	991.3
O	64.3	41.1	52.7	90	1971	21	1972	392	11	2.85	8.32	1969	0.01	1952	5.22	1954	2.2	1967	2.2	1967	79	84	56	63	9.4	SSW	37	25	1961		5.4	11	8	12	8	*	2	2	*	0	5	0	991.9
N	46.5	28.7	37.6	74	1964	3	1964	822	0	2.37	4.83	1961	0.51	1953	3.20	1961	14.7	1951	9.5	1951	80	83	66	73	10.4	WNW	46	20	1961		6.9	7	6	17	8	1	1	3	0	2	18	0	989.5
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1955	2.24	1971	20.0	1973	8.0	1954	82	84	74	78	10.3	WNW	44	29	1970		7.2	7	5	19	10	3	*	3	0	14	27	2	990.5
YR	58.3	37.8	48.1	99	JUL 1965	-22	JAN 1970	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961	22.7	MAR 1964	10.9	FEB 1960	80	83	61	65	9.9	WNW	54	11	APR 1953		6.3	96	99	170	115	11	42	24	13	53	140	15	989.0

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
1975	23.5	23.1	29.2	42.5	62.4	70.5	73.1	73.1	58.0	53.1	42.2	27.0	48.1
RECORD MEAN	21.2	24.7	35.2	48.2	59.4	69.1	73.9	72.0	64.1	52.8	38.6	25.8	48.7
MAX	29.8	33.3	44.4	59.2	71.1	80.6	85.7	83.7	75.7	64.0	47.3	33.5	59.0
MIN	12.6	16.1	26.0	37.1	47.6	57.6	62.0	60.3	52.4	41.6	29.8	18.0	38.4

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179	1277	1166	1107	668	150	29	6960
1975-76	12	0	225	376	678	1172							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	44	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679
1975	0	0	0	0	75	201	273	258	22	15	0	0	844

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
1975	2.38	2.03	2.81	2.39	3.03	4.68	1.30	4.08	0.91	0.98	4.24	1.95	30.78
RECORD MEAN	1.76	1.41	2.52	3.45	3.81	4.41	3.70	3.65	3.96	2.83	2.33	1.68	35.51

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4	4.2	18.6	8.4	4.6	0.0	0.0	51.5
1975-76	0.0	0.0	0.0	0.0	6.4	7.9							
RECORD MEAN	0.0	0.0	0.0	0.1	2.7	8.0	7.9	6.3	7.6	1.3	T	0.0	33.9

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5			b6	c4	d4		First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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Thomas D. Potter
Director, National Climatic Center

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al Climatological Data

Summary With Comparative Data

1974

ROCKFORD, ILLINOIS

Narrative Climatological Summary

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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Meteorological Data For The Current Year

Station. ROCKFORD, ILLINOIS — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12′ N — Longitude: 89° 06′ W — Elevation (ground) . 724 feet — Year: 1974

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
JAN	27.7	14.6	21.2	47	30	-21	12	1354	0	3.55	1.43	26-27	12.2	3.2	8	84	83	76	81	26	2.5	9.5	25	30	31		6.8	8	5	18	11	5	0	4	0	15	26	9	991.5
FEB	32.3	15.6	24.0	47	18	-4	8	1142	0	1.65	1.21	21-22	15.1	7.6	21-22	79	83	70	73	01	1.8	10.9	28	28	28		6.6	8	5	15	8	3	1	2	0	16	26	2	988.2
MAR	44.0	28.3	36.2	73	3	1	24	887	0	2.03	0.69	29-30	2.3	0.9	16	82	83	68	74	05	0.8	12.0	35	23	3		7.9	3	7	21	13	0	3	7	0	2	20	0	987.1
APR	61.8	39.8	50.8	83	27	24	6	427	9	3.41	0.96	28	T	T	23	78	82	58	61	19	2.7	12.7	35	19	21		7.3	5	8	17	10	0	6	2	0	0	8	0	986.5
MAY	66.0	47.2	56.6	85	21	32	7	277	25	6.98	3.44	16-17	0.0	0.0		85	86	64	69	14	0.9	10.0	31	30	12		8.0	3	7	21	16	0	9	1	0	0	1	0	985.8
JUN	76.7	55.4	66.1	91	20	44	1	59	98	6.30	2.56	8-9	0.0	0.0		83	82	56	59	23	1.8	9.3	46	30	20		6.5	6	10	14	12	0	9	0	1	0	0	0	985.1
JUL	87.0	63.6	75.3	97	13	54	31	0	329	1.48	0.96	3-4	0.0	0.0		77	80	50	53	21	1.7	8.1	37	15	2		5.4	9	15	7	10	0	9	1	11	0	0	0	989.5
AUG	81.0	59.6	70.3	93	26	50	30	5	177	2.21	1.72	26-27	0.0	0.0		83	90	54	58	20	2.2	7.6	23	26	11		6.9	3	12	16	8	0	3	4	3	0	0	0	989.8
SEP	72.0	48.1	60.1	85	11	29	23	175	35	0.35	0.14	12	0.0	0.0		81	88	51	55	25	2.4	7.8	22	33	30		4.8	14	7	9	8	0	1	0	0	0	2	0	990.9
OCT	63.5	40.5	52.0	78	4	25	2	400	6	2.41	0.85	5-6	0.0	0.0		76	81	51	58	21	3.3	9.3	24	18	31		6.0	10	7	14	9	0	2	0	0	0	7	0	994.9
NOV	45.4	30.5	38.0	71	2	16	26	804	0	2.31	1.25	10-11	4.3	4.1	29-30	81	83	67	75	27	3.2	10.3	24	04	30		7.1	8	2	20	8	1	0	1	0	2	20	0	989.5
DEC	33.3	20.1	26.7	41	10	6	25	1179	0	1.63	0.45	7	11.4	3.3	31	84	84	76	80	25	1.7	9.0	23	03	1		7.8	5	4	22	13	4	0	7	0	11	30	0	988.8
YEAR	57.6	38.6	48.1	97	JUL 13	-21	JAN 12	6709	679	34.31	3.44	MAY 16-17	45.3	7.6	FEB 21-22	81	84	62	66	23	1.4	9.7	46	30	JUN 20		6.8	82	89	194	126	13	43	29	15	46	140	11	989.0

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct.: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb: Elev. 743 feet m.s.l.
(a)				11		11					24		24		24		24		24		11	11	11	11	24	13	24	24			24	24	24	24	24	24	24	24	11	11	11	11	2
J	28.9	11.5	20.2	60	1967	-22	1970	1389	0	1.79	4.66	1960	0.18	1961	2.89	1960	21.4	1959	9.3	1966	78	78	69	74	10.2	WNW	40	27	1972		6.7	7	7	17	9	3	*	3	0	18	29	9	991.0
F	32.6	15.3	24.0	55	1965	-16	1972	1148	0	1.29	2.67	1971	0.04	1969	1.73	1966	19.5	1960	10.9	1960	76	78	65	69	10.7	WNW	45	25	1953		6.4	8	5	15	7	2	*	3	0	14	27	4	990.9
M	43.1	25.0	34.1	76	1967	1	1974	958	0	2.65	5.62	1961	0.52	1958	1.83	1973	22.7	1964	10.4	1972	78	80	61	65	11.5	ENE	46	25	1953		6.8	6	8	17	11	2	2	3	0	4	24	0	987.1
A	59.1	37.3	48.2	86	1970	15	1972	504	0	3.85	9.92	1973	1.79	1971	5.55	1973	6.7	1970	6.7	1970	77	82	59	60	11.8	WNW	54	11	1953		6.6	7	8	15	12	*	5	2	0	0	8	0	985.8
M	70.3	47.2	58.8	90	1972	24	1966	233	41	3.86	6.98	1974	1.44	1961	3.44	1974	1.0	1966	T	1967	77	81	55	56	10.7	ENE	47	23	1954		6.3	8	9	14	11	*	6	1	*	0	1	0	984.5
J	79.9	57.7	68.8	98	1971	38	1972	35	149	4.42	9.98	1967	1.45	1957	4.15	1969	0.0		0.0		79	83	56	56	9.3	SSW	46	30	1974		6.0	7	11	12	10	0	8	1	3	0	0	0	985.3
J	84.2	61.4	72.8	99	1965	43	1967	6	247	4.27	11.81	1952	1.32	1967	5.03	1952	0.0		0.0		83	86	57	58	8.1	SSW	50	29	1951		5.6	9	13	9	10	0	8	1	5	0	0	0	988.9
A	82.8	60.1	71.5	94	1973	43	1965	16	218	3.66	9.27	1965	0.67	1970	4.24	1972	0.0		0.0		87	91	58	62	7.9	SSW	48	26	1965		5.5	9	12	10	8	0	5	2	3	0	0	0	989.8
S	74.7	51.8	63.3	92	1971	29	1974	99	48	4.00	10.68	1961	0.35	1974	5.56	1961	0.0		0.0		86	90	59	65	8.7	SSW	52	20	1961		5.4	10	9	11	9	0	5	1	1	0	*	0	990.9
O	64.3	41.1	52.7	90	1971	21	1972	392	11	2.85	8.32	1969	0.01	1952	5.22	1954	2.2	1967	2.2	1967	79	84	57	64	9.4	SSW	37	25	1961		5.5	11	8	12	8	*	2	2	*	0	5	0	992.1
N	46.5	28.7	37.6	74	1964	3	1964	822	0	2.37	4.83	1961	0.51	1953	3.20	1961	14.7	1951	9.5	1951	80	83	66	73	10.3	WNW	46	20	1961		6.9	7	6	17	8	1	1	3	0	2	18	0	989.7
D	33.1	16.7	24.9	65	1970	-20	1963	1243	0	1.71	5.04	1971	0.37	1955	2.24	1971	20.0	1973	8.0	1954	83	84	74	79	10.2	WNW	44	29	1970		7.1	7	5	19	10	3	*	3	0	13	26	2	989.3
YR	58.3	37.8	48.1	99	JUL 1965	-22	JAN 1970	6845	714	36.72	11.81	JUL 1952	0.01	OCT 1952	5.56	SEP 1961	22.7	MAR 1964	10.9	FEB 1960	80	83	61	65	9.9	WNW	54	11	APR 1953		6.2	96	101	168	114	11	42	24	13	51	139	15	988.8

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
1974	21.2	24.0	36.2	50.8	56.6	66.1	75.3	70.3	60.1	52.0	38.0	26.7	48.1
RECORD MEAN	21.2	24.7	35.3	48.3	59.3	69.1	73.9	72.0	64.2	52.8	38.5	25.7	48.7
MAX	29.8	33.3	44.5	59.3	71.0	80.6	85.7	83.7	75.8	64.0	47.2	33.5	59.0
MIN	12.6	16.1	26.0	37.2	47.5	57.6	62.0	60.2	52.5	41.6	29.7	17.9	38.4

Heating Degree Days

ROCKFORD, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260	1354	1142	887	427	277	59	6533
1974-75	0	5	175	400	804	1179							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	0	45	82	244	213	66	21	0	0	671
1970	0	0	0	16	64	157	276	209	79	5	0	0	806
1971	0	0	0	1	16	288	197	190	193	35	0	0	920
1972	0	0	0	0	89	104	214	229	75	0	0	0	711
1973	0	0	0	5	1	178	272	263	84	25	0	0	828
1974	0	0	0	9	25	98	329	177	35	6	0	0	679

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
1974	3.55	1.65	2.03	3.41	6.98	6.30	1.48	2.21	0.35	2.41	2.31	1.63	34.31
RECORD MEAN	1.76	1.40	2.51	3.47	3.82	4.41	3.74	3.64	4.00	2.85	2.30	1.68	35.58

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0	12.2	15.1	2.3	T	0.0	0.0	49.6
1974-75	0.0	0.0	0.0	0.0	4.3	11.4							
RECORD MEAN	0.0	0.0	0.0	0.1	2.5	8.0	8.0	5.8	7.6	1.2	T	0.0	33.2

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1906 for precipitation and 1951 for snowfall. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5			b6	c4	d4		First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD, ILLINOIS

1973

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February. Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: ROCKFORD, ILLINOIS — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1973

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days (Base 65°): Heating	Cooling	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind &: Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: ‡ 90° and above	32° and below	Minimum: 32° and below	0° and below	Average daily solar radiation - langleys
JAN	33.6	19.0	26.3	54	25	-2	10	1193	0	1.67	0.96	3	0.4	0.2	28 +	80	81	70	77	26	3.7	11.9	25	36	28+		6.9	7	4	20	9	0	0	0	0	10	27	3	
FEB	33.7	20.0	26.9	49	4	-11	17	1061	0	1.56	0.79	1-2	6.9	4.1	13-14	84	83	74	76	02	2.1	11.0	23	36	15+		6.6	8	4	16	7	3	2	1	0	9	25	3	
MAR	50.7	35.2	43.0	68	14	21	22	675	0	4.53	1.83	6-7	0.9	0.9	16	83	88	71	71	07	3.7	12.0	35	06	31		7.3	7	4	20	14	0	5	6	0	0	10	0	
APR	55.7	39.5	47.6	79	20	19	11	520	5	9.92	5.55	20-21	5.2	3.9	9	82	86	68	67	07	1.3	12.8	36	07	9		7.3	6	6	18	18	1	4	4	0	0	7	0	
MAY	65.4	46.2	55.8	78	31	34	4	281	1	6.98	2.00	1	0.0	0.0		84	84	62	64	26	1.2	11.5	29	28	10+		7.4	4	10	17	18	0	5	2	0	0	0	0	
JUN	81.2	59.9	70.6	90	11+	52	29	2	178	5.16	2.57	4	0.0	0.0		84	87	59	59	23	4.5	9.7	37	36	16		5.8	8	10	12	10	0	3	0	2	0	0	0	
JUL	83.5	63.4	73.5	93	8	54	16	0	272	5.81	2.48	3-4	0.0	0.0		87	89	63	64	22	1.0	8.4	30	34	3		5.9	8	12	11	11	0	8	1	5	0	0	0	
AUG	83.4	62.9	73.2	94	27	54	3	3	263	1.89	1.40	23-24	0.0	0.0		89	93	60	64	18	2.7	7.6	21	18	7		5.4	11	11	9	6	0	2	1	5	0	0	0	
SEP	72.9	55.6	64.3	91	1	39	18	99	84	8.52	2.54	21	0.0	0.0		90	92	65	74	12	1.5	8.3	23	11	21		7.2	5	6	19	16	0	8	1	1	0	0	0	
OCT	66.3	46.7	56.5	81	11+	33	17	281	25	5.15	2.61	10	0.0	0.0		86	90	65	72	22	2.6	8.7	25	27	13		6.2	8	9	14	11	0	4	4	0	0	0	0	
NOV	48.1	31.7	39.9	63	14	15	10	744	0	1.97	0.68	14-15	T	T	16 +	82	84	67	75	27	1.8	9.6	23	06	14		7.5	6	3	21	10	0	2	6	0	0	14	0	
DEC	31.9	16.3	24.1	62	2	-8	21	1260	0	3.32	1.31	4-5	20.0	6.6	13	86	87	77	81	34	1.8	11.6	35	06	4		7.4	5	6	20	14	6	0	1	0	14	26	5	
YEAR	58.9	41.4	50.2	94	AUG. 27	-11	FEB. 17	6119	828	56.48	5.55	APR. 20-21	33.4	6.6	DEC. 13	85	87	67	70	23	0.7	10.3	37	36	JUN. 16		6.7	83	85	197	144	10	43	27	13	33	109	11	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum (a)	Daily minimum (b)	Monthly (b)	Extremes Ø: Record highest 10	Year	Record lowest 10	Year	Normal heating degree days (Base 65°) (b)	Precipitation: Normal total (b)	Maximum monthly 23	Year	Minimum monthly 23	Year	Maximum in 24 hrs. 23	Year	Snow, Ice pellets: Mean total 23	Maximum monthly 23	Year	Maximum in 24 hrs. 23	Year	Relative humidity: Hour 00 (Local time) 10	Hour 06 (Local time) 10	Hour 12 (Local time) 10	Hour 18 (Local time) 10	Wind &: Mean speed 23	Prevailing direction 13	Fastest mile: Speed 23	Direction 23	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset 23	Mean number of days: Sunrise to sunset: Clear 23	Partly cloudy 23	Cloudy 23	Precipitation .01 inch or more 23	Snow, Ice pellets 1.0 inch or more 23	Thunderstorms 23	Heavy fog 23	Temperatures: Max.: ‡ 90° and above 10	32° and below 10	Min.: 32° and below 10	0° and below 10	Average daily solar radiation - langleys
J	28.9	11.5	20.2	60	1967	-22	1970	1389	1.79	4.66	1960	0.18	1961	2.89	1960	7.9	21.4	1959	9.3	1966	77	77	69	74	10.3	WNW	40	27	1972+		6.7	7	7	17	9	3	*	3	0	18	29	9	
F	32.6	15.3	24.0	55	1965	-16	1972+	1148	1.29	2.67	1971	0.04	1969	1.73	1966	5.4	19.5	1960	10.9	1960	76	78	65	69	10.7	WNW	45	25	1953		6.4	8	5	15	7	2	*	3	0	14	27	4	
M	43.1	25.0	34.1	76	1967	2	1965	958	2.65	5.62	1961	0.52	1958	1.83	1973	7.8	22.7	1964	10.4	1972	77	80	61	64	11.5	ENE	46	25	1953		6.8	6	8	17	11	2	2	2	0	5	24	0	
A	59.1	37.3	48.2	86	1970	15	1972	504	3.85	9.92	1973	1.79	1971	5.55	1973	1.3	6.7	1970	6.7	1970	77	82	59	60	11.8	WNW	54	11	1953		6.6	7	8	15	12	*	4	2	0	0	8	0	
M	70.3	47.2	58.8	90	1972+	24	1966	233	3.86	6.98	1973	1.44	1961	2.64	1969	T	1.0	1966	T	1967+	77	81	54	55	10.8	ENE	47	23	1954		6.2	8	9	14	11	*	5	1	*	0	1	0	
J	79.9	57.7	68.8	98	1971	38	1972	35	4.42	9.98	1967	1.45	1957	4.15	1969	0.0	0.0		0.0		79	83	56	56	9.3	SSW	46	23	1968+		5.9	7	11	12	10	0	8	1	3	0	0	0	
J	84.2	61.4	72.8	99	1965	43	1967	6	4.27	11.81	1952	1.32	1967	5.03	1952	0.0	0.0		0.0		83	87	57	58	8.1	SSW	50	29	1951		5.6	9	12	10	10	0	8	1	5	0	0	0	
A	82.8	60.1	71.5	94	1973+	43	1965+	16	3.66	9.27	1965	0.67	1970	4.24	1972	0.0	0.0		0.0		87	91	58	62	7.9	SSW	48	26	1965		5.4	9	12	10	8	0	5	2	3	0	0	0	
S	74.7	51.8	63.3	92	1971	33	1964	99	4.00	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		86	90	60	66	8.8	SSW	52	20	1961		5.4	10	9	11	9	0	5	1	1	0	0	0	
O	64.3	41.1	52.7	90	1971+	21	1972	392	2.85	8.32	1969	0.01	1952	5.22	1954	0.2	2.2	1967	2.2	1967	79	84	58	65	9.4	SSW	37	25	1961		5.4	11	8	12	.8	*	2	2	*	0	5	0	
N	46.5	28.7	37.6	74	1964	3	1964	822	2.37	4.83	1961	0.51	1953	3.20	1961	2.5	14.7	1951	9.5	1951	80	83	66	73	10.3	WNW	46	20	1961		6.9	6	7	17	8	1	1	3	0	2	18	0	
D	33.1	16.7	24.9	65	1970	-20	1963	1243	1.71	5.04	1971	0.37	1955	2.24	1971	7.9	20.0	1973	8.0	1954	82	84	74	78	10.3	WNW	44	29	1970		7.1	7	5	19	10	3	*	3	0	14	26	2	
YR	58.3	37.8	48.1	99	JUL. 1965	-22	JAN. 1970	6845	36.72	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	33.0	22.7	MAR. 1964	10.9	FEB. 1960	80	83	61	65	9.9	WNW	54	11	APR. 1953		6.2	95	101	169	114	11	42	24	13	52	139	16	

Ø For period September 1963 through the current year.
Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological normals (1941-1970).
• Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
— Below zero temperatures are preceded by a minus sign.
‡ ≤ 70° at Alaskan stations.

The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive depsrtures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "Ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	37.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
1973	26.3	26.9	43.0	47.6	55.8	70.6	73.5	73.2	64.3	56.5	39.9	24.1	50.2
RECORD MEAN	21.2	24.8	35.3	48.2	59.3	69.2	73.9	72.0	64.2	52.8	38.5	25.7	48.8
MAX	29.8	33.4	44.5	59.2	71.1	80.7	85.7	83.7	75.8	64.0	47.2	33.5	59.1
MIN	12.5	16.1	26.0	37.2	47.5	57.6	62.0	60.2	52.6	41.6	29.7	17.9	38.4

HEATING DEGREE DAYS

ROCKFORD, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
#1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338	1193	1061	675	520	281	2	6568
1973-74	0	3	99	281	744	1260							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.03	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.99	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.40	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
1973	1.67	1.56	4.53	9.92	6.98	5.16	5.81	1.89	8.52	5.15	1.97	3.32	56.48
RECORD MEAN	1.73	1.39	2.52	3.47	3.77	4.38	3.77	3.66	4.06	2.86	2.30	1.68	35.59

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.0	0.1	4.4	8.7	0.4	6.9	0.9	5.2	0.0	0.0	26.6
1973-74	0.0	0.0	0.0	0.0	T	20.0							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, North Main	12/ ?/72	10/ ?/93		42° 17'	89° 05'	720							3			Observer, T. D. Robertson.
731 North Court Street	11/ ?/93	12/ ?/12	.25 mi. WSW	42° 17'	89° 05'	720							3			Observer, H. C. Porter.
1135 North Court Street	1/ ?/13	6/01/18	.5 mi. NE	42° 17'	89° 05'	720		5					3			Observer, Dr. John R. Porter.
731 North Court Street	6/02/18	7/29/20	.5 mi. SW	42° 17'	89° 05'	720		5					3			Observer, Carson H. Porter.
324 Churchill Street	7/30/20	9/23/53	.75 mi. NE	42° 17'	89° 05'	720		5					3			Observer, F. W. Knowlton and Daughter.
2221 North Winnebago	9/24/53	6/30/57	1.1 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT																
Greater Rockford Airport Fed. Facilities Building 4.7 miles South of P. O.	12/19/50	11/04/58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Building	11/05/58	Present	35 feet E	42° 12'	89° 06'	#724	a20	6	5			b6	c4	d4		First-Order Weather Bureau. # - 728 to 11/10/62 and 727 to 8/22/63. a - 33 to 12/6/62. b - 5 to 11/6/62. c - 3 to 11/6/62. d - Commissioned 8/22/63 1850 feet SSE of instrument shelter.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD, ILLINOIS

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: ROCKFORD, ILLINOIS — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1972

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days (Base 65°): Heating	Cooling	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity: Hour 00 (Local time)	Hour 06	Hour 12	Hour 18	Wind &: Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90° and above	‡ 32° and below	Minimum: 32° and below	0° and below	Average daily solar radiation - langleys
JAN	25.9	8.1	17.0	48	18	-19	15	1483	0	0.66	0.19	27	5.5	2.4	27	72	72	64	69	27	5.2	12.9	40	27	24		6.5	8	7	16	8	2	0	1	0	19	31	12	
FEB	29.1	11.8	20.5	52	29	-16	7	1287	0	0.60	0.22	2	7.9	3.3	2	77	78	68	71	30	2.6	10.7	29	26	17		7.1	6	6	17	10	3	0	1	0	17	28	6	
MAR	40.9	23.8	32.4	68	11	3	5	1006	0	2.79	0.90	12-13	15.7	10.4	29	75	77	63	64	36	2.8	12.9	32	29	7		6.9	6	8	17	12	3	2	2	0	4	26	0	
APR	54.1	34.9	44.5	77	18	15	8	606	0	6.21	3.17	16	2.7	2.5	7	77	81	60	61	09	3.3	11.3	30	12	21		7.3	5	6	19	10	1	4	2	0	0	11	0	
MAY	74.2	50.4	62.3	90	21	36	10	164	89	4.57	1.45	7-8	0.0	0.0		75	83	54	50	11	2.0	8.8	29	19	5		5.3	12	7	12	12	0	5	1	1	0	0	0	
JUN	77.6	53.9	65.8	94	3	38	11	79	104	8.27	4.03	13-14	0.0	0.0		77	83	56	51	35	1.0	9.2	27	28	19+		5.1	11	9	10	7	0	6	0	1	0	0	0	
JUL	80.0	62.1	71.1	93	21	45	5	17	214	8.39	2.65	14-15	0.0	0.0		86	91	65	65	21	2.4	7.8	23	36	14		6.7	7	9	15	13	0	9	1	4	0	0	0	
AUG	79.2	63.3	71.3	91	18+	49	9+	26	229	9.10	4.24	25-26	0.0	0.0		90	92	70	73	22	2.8	8.3	27	01	14		6.6	6	10	15	12	0	9	0	2	0	0	0	
SEP	72.2	54.4	63.3	85	20+	36	30	119	75	6.51	2.72	12-13	0.0	0.0		88	94	71	74	18	1.5	9.6	39	30	28		6.3	6	11	13	14	0	10	4	0	0	0	0	
OCT	57.0	40.8	48.9	75	2	21	19	491	0	4.29	1.44	21-22	0.1	0.1	18	81	87	67	72	21	1.3	9.6	28	28	16		6.8	6	7	18	13	0	2	3	0	0	6	0	
NOV	41.1	32.0	36.6	55	2	17	29+	845	0	1.39	0.55	1-2	4.4	2.1	25-26	85	85	76	80	31	2.2	9.9	29	04	13		9.0	1	4	25	9	2	0	0	0	2	15	0	
DEC	28.8	14.4	21.6	47	2	-18	11	1338	0	2.37	1.29	29-30	8.7	4.5	9-10	83	86	79	82	27	2.8	10.3	25	24	30		7.7	4	8	19	10	2	0	7	0	18	27	7	
YEAR	55.0	37.5	46.3	94	JUN. 3	-19	JAN. 15	7461	711	55.15	4.24	AUG. 25-26	45.0	10.4	MAR. 29	81	84	66	68	26	0.9	10.1	40	27	JAN. 24		6.8	78	92	196	130	13	47	22	8	60	144	25	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum (b)	Daily minimum (b)	Monthly (b)	Extremes Ø: Record highest 9	Year'	Record lowest 9	Year	Normal heating degree days (Base 65°) (b)	Precipitation: Normal total (b)	Maximum monthly 22	Year	Minimum monthly 22	Year	Maximum in 24 hrs. 22	Year	Snow, Ice pellets: Mean total 22	Maximum monthly 22	Year	Maximum in 24 hrs. 22	Year	Relative humidity: Hour 00 9	Hour 06 9	Hour 12 9	Hour 18 9	Wind &: Mean speed 22	Prevailing direction 13	Fastest mile: Speed 22	Direction 22	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset 22	Mean number of days: Sunrise to sunset: Clear 22	Partly cloudy 22	Cloudy 22	Precipitation .01 inch or more 22	Snow, Ice pellets 1.0 inch or more 22	Thunderstorms 22	Heavy fog 22	Temperatures: Max.: 90° and above 9	‡ 32° and below 9	Min.: 32° and below 9	0° and below 9	Average daily solar radiation - langleys
J	30.2	13.7	22.0	60	1967	-22	1970	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.2	21.4	1959	9.3	1966	77	77	69	73	10.2	WNW	40	27	1972+		6.7	7	7	17	9	3	*	3	0	19	29	10	
F	32.7	16.1	24.4	55	1965	-16	1972+	1137	1.44	2.67	1971	0.04	1969	1.73	1966	5.3	19.5	1960	10.9	1960	75	77	64	68	10.6	WNW	45	25	1953		6.4	8	5	15	7	2	*	3	0	14	27	4	
M	42.9	25.1	34.0	76	1967	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	8.1	22.7	1964	10.4	1972	76	79	59	63	11.5	ENE	46	25	1953		6.7	6	9	16	11	3	2	2	0	5	25	0	
A	58.7	36.9	47.8	86	1970	15	1972	516	3.05	8.17	1964	1.79	1971	3.17	1972	1.1	6.7	1970	6.7	1970	76	81	58	59	11.7	WNW	54	11	1953		6.6	7	8	15	12	*	4	1	0	0	9	0	
M	70.5	47.7	59.1	90	1972+	24	1966	236	3.83	5.75	1969	1.44	1961	2.64	1969	T	1.0	1966	T	1967+	76	80	53	53	10.7	ENE	47	23	1954		6.1	8	9	14	11	*	5	1	*	0	1	0	
J	80.9	58.4	69.7	98	1971	38	1972	60	4.30	9.98	1967	1.45	1957	4.15	1969	0.0	0.0		0.0		78	82	56	55	9.3	SSW	46	23	1968+		6.0	7	11	12	10	0	8	1	3	0	0	0	
J	86.3	62.1	74.2	99	1965	43	1967	6	4.14	11.81	1952	1.32	1967	5.03	1952	0.0	0.0		0.0		83	86	57	58	8.1	SSW	50	29	1951		5.6	9	12	10	10	0	8	1	5	0	0	0	
A	84.2	60.8	72.5	94	1971	43	1965+	9	4.14	9.27	1965	0.67	1970	4.24	1972	0.0	0.0		0.0		87	91	58	62	7.9	SSW	48	26	1965		5.4	9	12	10	8	0	6	2	3	0	0	0	
S	75.6	52.0	63.8	92	1971	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		86	90	59	65	8.8	SSW	52	20	1961		5.4	10	9	11	9	0	5	1	1	0	0	0	
O	64.1	40.9	52.5	90	1971+	21	1972	400	2.70	8.32	1969	0.01	1952	5.22	1954	0.2	2.2	1967	2.2	1967	78	84	57	64	9.4	SSW	37	25	1961		5.4	11	8	12	8	*	2	2	*	0	6	0	
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.6	14.7	1951	9.5	1951	80	83	66	73	10.4	WNW	46	20	1961		6.9	7	6	17	8	1	1	3	0	2	19	0	
D	33.5	17.7	25.6	65	1970	-20	1963	1221	1.70	5.04	1971	0.37	1955	2.24	1971	7.4	18.4	1951	8.0	1954	82	84	73	78	10.2	WNW	44	29	1970		7.1	7	5	19	9	2	*	3	0	14	26	2	
YR	58.8	38.3	48.6	99	JUL. 1965	-22	JAN. 1970	6830	35.62	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	32.9	22.7	MAR. 1964	10.9	FEB. 1960	80	83	61	64	9.9	WNW	54	11	APR. 1953		6.2	96	101	168	112	11	42	24	13	54	143	16	

Ø For period September 1963 through the current year.
Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
• Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≦ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per squsre centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, snd 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

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AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
1972	17.0	20.5	32.4	44.5	62.3	65.8	71.1	71.3	63.3	48.9	36.6	21.6	46.3
RECORD MEAN	21.1	24.7	35.2	48.2	59.4	69.1	73.9	72.0	64.2	52.7	38.5	25.7	48.8
MAX	29.7	33.4	44.5	59.3	71.2	80.6	85.7	83.7	75.9	63.9	47.2	33.5	59.1
MIN	12.4	16.0	25.9	37.1	47.6	57.5	62.0	60.2	52.5	41.5	29.7	17.9	38.4

TOTAL DEGREE DAYS

ROCKFORD, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
#1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031	1483	1287	1006	606	164	79	6750
1972-73	17	26	119	491	845	1338							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
1972	0.66	0.60	2.79	6.21	4.57	8.27	8.39	9.10	6.51	4.29	1.39	2.37	55.15
RECORD MEAN	1.73	1.39	2.49	3.37	3.72	4.37	3.74	3.69	3.99	2.82	2.31	1.65	35.27

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1933-34	0.0	0.0	0.0	T	1.0	4.5	T	2.8	0.5	T	0.0	0.0	8.8
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2	5.5	7.9	15.7	2.7	0.0	0.0	37.0
1972-73	0.0	0.0	0.0	0.1	4.4	8.7							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

Requests for additional information should be directed to the National Weather Service Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD, ILLINOIS

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NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: ROCKFORD, ILLINOIS — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1971

Month	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Monthly	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Degree days (Base 65°): Heating	Degree days (Base 65°): Cooling	Precipitation: Total	Precipitation: Greatest in 24 hrs.	Precipitation: Date	Precipitation: Snow, Ice pellets: Total	Precipitation: Snow, Ice pellets: Greatest in 24 hrs.	Precipitation: Snow, Ice pellets: Date	Relative humidity: Hour 00 (Local time)	Relative humidity: Hour 06 (Local time)	Relative humidity: Hour 12 (Local time)	Relative humidity: Hour 18 (Local time)	Wind &: Resultant: Direction	Wind &: Resultant: Speed	Wind &: Resultant: Average speed	Wind &: Fastest mile: Speed	Wind &: Fastest mile: Direction	Wind &: Fastest mile: Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Number of days: Sunrise to sunset: Partly cloudy	Number of days: Sunrise to sunset: Cloudy	Number of days: Precipitation .01 inch or more	Number of days: Snow, Ice pellets 1.0 inch or more	Number of days: Thunderstorms	Number of days: Heavy fog	Number of days: Temperatures: Maximum: 90° and above	Number of days: Temperatures: Maximum: ‡ 32° and below	Number of days: Temperatures: Minimum: 32° and below	Number of days: Temperatures: Minimum: 0° and below	Average daily solar radiation - langleys
JAN	23.5	6.1	14.8	41	25	-11	6	1549	0	1.11	0.87	3-4	10.0	6.9	3	73	76	67	70	28	5.7	12.5	40	30	29		5.7	12	4	15	7	2	0	0	0	22	31	14	
FEB	31.6	18.3	25.0	54	26+	-14	2	1114	0	2.67	0.95	18-19	3.4	1.7	3	77	78	73	73	27	4.0	13.1	40	27	27		7.0	7	3	18	11	2	1	2	0	12	24	5	
MAR	39.5	25.1	32.3	71	31	13	4	1007	0	2.11	0.84	18-19	14.6	5.9	18-19	77	78	63	67	30	2.7	12.3	31	29	15		6.8	9	4	18	11	4	2	2	0	7	24	0	
APR	59.8	36.1	48.0	80	20+	20	3	504	1	1.79	0.62	27	0.4	0.4	2-3	70	75	47	47	31	1.4	11.8	32	27	2		4.9	14	5	11	9	0	4	0	0	0	9	0	
MAY	69.4	44.5	57.0	87	17	31	3	258	16	1.83	0.69	24	0.0	0.0		72	78	46	47	23	0.8	10.4	27	19	17		5.5	10	6	15	8	0	5	0	0	0	1	0	
JUN	86.1	62.2	74.2	98	28	49	9	5	288	2.37	1.15	1	0.0	0.0		80	84	53	54	19	2.5	9.0	29	30	6		5.4	8	14	8	7	0	9	1	10	0	0	0	
JUL	81.7	59.6	70.7	92	7	47	30	14	197	2.81	1.04	8	0.0	0.0		82	87	49	53	24	2.3	9.2	43	28	8		6.0	7	13	11	9	0	6	2	1	0	0	0	
AUG	83.3	58.1	70.7	94	10	50	28+	5	190	1.48	0.40	22	0.0	0.0		81	92	50	53	25	0.1	8.1	33	06	22		5.3	10	11	10	6	0	6	3	7	0	0	0	
SEP	79.3	56.9	68.1	92	30+	36	24	95	193	2.36	1.41	4	0.0	0.0		82	90	53	57	18	2.1	8.9	40	20	4		5.6	7	14	9	6	0	4	1	8	0	0	0	
OCT	69.7	48.7	59.2	90	1	34	31+	209	35	1.99	1.06	19	0.0	0.0		84	89	59	65	21	3.1	9.9	32	23	27		5.7	10	9	12	6	0	1	3	1	0	0	0	
NOV	47.6	30.5	39.1	73	14	14	22	771	0	2.24	0.84	1	5.0	3.1	28-29	77	81	63	72	25	3.1	11.4	30	24	5		6.8	6	7	17	11	1	0	2	0	1	18	0	
DEC	38.0	24.9	31.5	58	15	8	18+	1031	0	5.04	2.24	14-15	0.2	0.2	17	83	86	75	79	25	2.1	9.6	35	20	15		8.0	4	6	21	12	0	1	5	0	4	23	0	
YEAR	59.1	39.3	49.2	98	JUN. 28	-14	FEB. 2	6562	920	27.80	2.24	DEC. 14-15	33.6	6.9	JAN. 3	78	83	58	61	25	2.0	10.5	43	28	JUL. 8		6.1	104	96	165	103	9	39	21	27	46	130	19	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Temperature: Normal: Daily minimum	Temperature: Normal: Monthly	Temperature: Extremes Ø: Record highest	Temperature: Extremes Ø: Year	Temperature: Extremes Ø: Record lowest	Temperature: Extremes Ø: Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Precipitation: Maximum monthly	Precipitation: Year	Precipitation: Minimum monthly	Precipitation: Year	Precipitation: Maximum in 24 hrs.	Precipitation: Year	Snow, Ice pellets: Mean total	Snow, Ice pellets: Maximum monthly	Snow, Ice pellets: Year	Snow, Ice pellets: Maximum in 24 hrs.	Snow, Ice pellets: Year	Relative humidity: Hour 00 (Local time)	Relative humidity: Hour 06 (Local time)	Relative humidity: Hour 12 (Local time)	Relative humidity: Hour 18 (Local time)	Wind &: Mean speed	Wind &: Prevailing direction	Wind &: Fastest mile: Speed	Wind &: Fastest mile: Direction	Wind &: Fastest mile: Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Mean number of days: Sunrise to sunset: Partly cloudy	Mean number of days: Sunrise to sunset: Cloudy	Mean number of days: Precipitation .01 inch or more	Mean number of days: Snow, Ice pellets 1.0 inch or more	Mean number of days: Thunderstorms	Mean number of days: Heavy fog	Mean number of days: Temperatures: Max.: 90° and above	Mean number of days: Temperatures: Max.: ‡ 32° and below	Mean number of days: Temperatures: Min.: 32° and below	Mean number of days: Temperatures: Min.: 0° and below	Average daily solar radiation - langleys
(s)	(b)	(b)	(b)	8		8		(b)	(b)	21		21		21		21	21		21		8	8	8	8	21	13	21	21			21	21	21	21	21	21	21	21	8	8	8	8	
J	30.2	13.7	22.0	60	1967	-22	1970	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.3	21.4	1959	9.3	1966	77	77	69	74	10.1	WNW	40	30	1971+		6.7	7	7	17	9	3	*	3	0	19	29	10	
F	32.7	16.1	24.4	55	1965	-16	1965	1137	1.44	2.67	1971	0.04	1969	1.73	1966	5.2	19.5	1960	10.9	1960	75	77	63	68	10.6	WNW	45	25	1953		6.4	8	5	15	7	2	*	3	0	14	27	4	
M	42.9	25.1	34.0	76	1967	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	7.8	22.7	1964	7.6	1961	77	80	59	63	11.4	ENE	46	25	1953		6.7	6	9	16	11	3	1	2	0	5	25	0	
A	58.7	36.9	47.8	86	1970	16	1967	516	3.05	8.17	1964	1.79	1971	3.03	1963	1.0	6.7	1970	6.7	1970	76	81	58	59	11.7	WNW	54	11	1953		6.5	7	8	15	12	*	4	1	0	0	8	0	
M	70.5	47.7	59.1	90	1969+	24	1966	236	3.83	5.75	1969	1.44	1961	2.64	1969	T	1.0	1966	T	1967+	76	80	53	54	10.8	ENE	47	23	1954		6.2	8	9	14	11	*	5	1	*	0	2	0	
J	80.9	58.4	69.7	98	1971	41	1969	60	4.30	9.98	1967	1.45	1957	4.15	1969	0.0	0.0		0.0		78	82	56	56	9.3	SSW	46	23	1968+		6.0	7	11	12	11	0	8	1	3	0	0	0	
J	86.3	62.1	74.2	99	1965	43	1967	6	4.14	11.81	1952	1.32	1967	5.03	1952	0.0	0.0		0.0		82	86	56	57	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	5	0	0	0	
A	84.2	60.8	72.5	94	1971	43	1965+	9	4.14	9.27	1965	0.67	1970	3.58	1968	0.0	0.0		0.0		87	91	57	61	7.9	SSW	48	26	1965		5.4	9	12	10	8	0	5	2	3	0	0	0	
S	75.6	52.0	63.8	92	1971	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		85	89	58	64	8.7	SSW	52	20	1961		5.3	10	9	11	9	0	5	1	2	0	0	0	
O	64.1	40.9	52.5	90	1971+	22	1969	400	2.70	8.32	1969	0.01	1952	5.22	1954	0.2	2.2	1967	2.2	1967	78	83	56	63	9.4	SSW	37	25	1961		5.3	12	7	12	8	*	2	2	*	0	6	0	
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.5	14.7	1951	9.5	1951	79	83	65	72	10.4	WNW	46	20	1961		6.8	7	7	16	8	1	1	3	0	2	19	0	
D	33.5	17.7	25.6	65	1970	-20	1963	1221	1.70	5.04	1971	0.37	1955	2.24	1971	7.3	18.4	1951	8.0	1954	82	84	73	78	10.2	WNW	44	29	1970		7.1	7	5	19	9	2	*	3	0	13	26	2	
YR	58.8	38.3	48.6	99	JUL. 1965	-22	JAN. 1970	6830	35.62	11.81	JUL. 1952	0.01	DEC. 1952	5.56	SEP. 1961	32.3	22.7	MAR. 1964	10.9	FEB. 1960	79	83	60	64	9.9	WNW	54	11	APR. 1953		6.2	97	102	166	111	11	41	24	13	53	142	15	

Ø For period September 1963 through the current year.
Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(s) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≥ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "Ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

551.5
Ill3aroc
1971

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1932	30.1	31.9	27.9	47.6	61.8	71.4	75.5	73.2	62.6	50.3	34.2	25.4	49.3
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
1971	14.8	25.0	32.3	48.0	57.0	74.2	70.7	70.7	68.1	59.2	39.1	31.5	49.2
RECORD MEAN	21.2	24.8	35.2	48.3	59.3	69.2	73.9	72.0	64.2	52.8	38.5	25.8	48.8
MAX	29.8	33.4	44.5	59.4	71.1	80.7	85.8	83.8	75.9	64.0	47.3	33.6	59.1
MIN	12.5	16.1	25.9	37.2	47.5	57.7	62.0	60.2	52.5	41.5	29.6	18.0	38.4

TOTAL DEGREE DAYS

ROCKFORD, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1932-33	4	2	129	464	932	1233	974	1204	936	562	170	14	6624
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
#1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182	1549	1114	1007	504	258	5	6932
1971-72	14	5	95	209	771	1031							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1932	1.90	0.41	3.52	1.22	2.23	3.01	2.39	2.51	2.05	5.76	0.79	1.82	27.61
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
1971	1.11	2.67	2.11	1.79	1.83	2.37	2.81	1.48	2.36	1.99	2.24	5.04	27.80
RECORD MEAN	1.75	1.40	2.49	3.33	3.71	4.31	3.67	3.61	3.95	2.80	2.32	1.64	34.98

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1932-33	0.0	0.0	0.0	T	T	3.5	0.5	5.0	12.0	T	0.0	0.0	21.0
1933-34	0.0	0.0	0.0	T	1.0	4.5	T	2.8	0.5	T	0.0	0.0	8.8
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2	10.0	3.4	14.6	0.4	0.0	0.0	31.6
1971-72	0.0	0.0	0.0	0.0	5.0	0.2							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

Requests for additional information should be directed to the National Weather Service Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ROCKFORD, ILLINOIS

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ENVIRONMENTAL DATA SERVICE

NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: ROCKFORD, ILLINOIS — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1970

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days (Base 65°): Heating	Cooling	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind &: Resultant: Direction	Resultant: Speed	Average speed	Fastest mile: Speed	Fastest mile: Direction	Fastest mile: Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: ‡ 90° and above	32° and below	Minimum: 32° and below	0° and below	Average daily solar radiation - langleys
JAN	20.5	4.5	12.5	42	31+	-22	21	1627	0	0.51	0.18	13-14	8.2	2.9	13-14	77	76	70	74	28	4.3	10.0	23	31	27+		5.7	11	8	12	12	2	0	3	0	24	30	15	
FEB	31.3	13.4	22.4	46	22	-11	3	1191	0	0.56	0.39	8	5.4	3.7	8	76	77	67	71	29	4.2	11.6	28	27	4		6.0	8	6	14	4	1	0	3	0	14	28	5	
MAR	41.5	24.6	33.1	52	21	8	28	983	0	1.89	1.05	19	6.4	3.6	25-26	76	80	55	59	02	3.5	10.7	23	27	20+		6.3	7	10	14	8	3	0	4	0	4	27	0	
APR	57.8	39.2	48.5	86	29	26	10	502	16	3.75	1.09	19-20	6.7	6.7	1-2	77	82	58	56	21	2.1	13.2	46	12	19		6.1	9	9	12	11	2	4	2	0	0	8	0	
MAY	71.5	49.2	60.4	88	21	32	6	203	64	5.50	1.94	12-13	0.0	0.0		81	83	61	58	21	4.1	11.5	28	26	1		6.1	8	8	15	15	0	10	1	0	0	1	0	
JUN	79.0	57.9	68.5	94	30	46	4	44	157	4.20	2.26	1-2	0.0	0.0		83	88	59	59	19	2.2	10.3	32	24	17		5.5	10	9	11	8	0	8	2	2	0	0	0	
JUL	84.4	62.7	73.6	95	2	50	21	5	276	4.29	2.15	29-30	0.0	0.0		83	87	53	55	25	2.6	8.8	27	19	15		4.5	12	12	7	10	0	10	0	10	0	0	0	
AUG	82.3	60.5	71.4	92	29	51	24+	2	209	0.67	0.32	18	0.0	0.0		84	90	51	56	18	1.5	8.1	23	31	30		4.4	12	13	6	3	0	1	0	3	0	0	0	
SEP	73.3	53.8	63.6	88	7	39	29+	117	79	10.63	2.40	2-3	0.0	0.0		87	89	65	70	21	2.1	9.4	23	30	9+		5.8	10	6	14	14	0	11	2	0	0	0	0	
OCT	62.1	43.5	52.8	80	5	28	16	377	5	4.03	2.12	27-28	0.0	0.0		82	86	62	67	19	4.5	10.0	27	15	9		6.2	9	7	15	10	0	1	4	0	0	4	0	
NOV	44.7	30.7	37.7	58	6	8	23	812	0	1.36	0.52	9-10	T	T	25 +	80	82	69	74	28	1.2	11.7	32	30	22		7.9	4	5	21	9	0	0	4	0	2	15	0	
DEC	34.7	18.5	26.6	65	3	0	24	1182	0	1.37	0.75	10-11	3.2	1.5	12-13	81	83	71	75	28	2.6	12.0	44	29	3		6.6	8	5	18	10	1	1	0	0	14	25	1	
YEAR	56.9	38.2	47.6	95	JUL. 2	-22	JAN. 21	7045	806	38.76	2.40	SEP. 2-3	29.9	6.7	APR. 1-2	81	84	62	65	24	1.8	10.6	46	12	APR. 19		5.9	108	98	159	114	9	46	25	15	58	138	21	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes Ø: Record highest	Year	Record lowest	Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity: Hour 00 (Local time)	Hour 06 (Local time)	Hour 12 (Local time)	Hour 18 (Local time)	Wind &: Mean speed	Prevailing direction	Fastest mile: Speed	Direction	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: ‡ 90° and above	32° and below	Min.: 32° and below	0° and below	Average daily solar radiation - langleys
				7		7				20		20		20		20	20		20		7	7	7	7	20	13	20	20			20	20	20	20	20	20	20	20	7	7	7	7	
(a)	(b)	(b)	(b)					(b)	(b)																																	
J	30.2	13.7	22.0	60	1967	-22	1970	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.2	21.4	1959	9.3	1966	78	78	70	74	9.9	WNW	40	27	1967		6.7	7	7	17	9	3	*	3	0	19	29	9	
F	32.7	16.1	24.4	55	1965	-16	1965	1137	1.44	2.24	1959	0.04	1969	1.73	1966	5.3	19.5	1960	10.9	1960	75	77	62	67	10.5	WNW	45	25	1953		6.4	8	5	15	7	2	*	3	0	14	28	4	
M	42.9	25.1	34.0	76	1967	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	7.4	22.7	1964	7.6	1961	77	80	58	62	11.4	ENE	46	25	1953		6.7	6	9	16	11	3	1	2	0	5	26	0	
A	58.7	36.9	47.8	86	1970	16	1967	516	3.05	8.17	1964	1.90	1958	3.03	1963	1.0	6.7	1970	6.7	1970	77	82	59	60	11.7	WNW	54	11	1953		6.6	7	8	15	12	*	5	2	0	0	8	0	
M	70.5	47.7	59.1	90	1969+	24	1966	236	3.83	5.75	1969	1.44	1961	2.64	1969	0.1	1.0	1966	T	1967+	77	80	54	55	10.8	ENE	47	23	1954		6.2	8	9	14	11	*	5	1	*	0	2	0	
J	80.9	58.4	69.7	94	1970+	41	1969	60	4.30	9.98	1967	1.45	1957	4.15	1969	0.0	0.0		0.0		78	82	56	56	9.3	SSW	46	23	1968+		6.0	7	11	12	11	0	8	1	2	0	0	0	
J	86.3	62.1	74.2	99	1965	43	1967	6	4.14	11.81	1952	1.32	1967	5.03	1952	0.0	0.0		0.0		82	86	56	57	8.1	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	6	0	0	0	
A	84.2	60.8	72.5	93	1968+	43	1965+	9	4.14	9.27	1965	0.67	1970	3.58	1968	0.0	0.0		0.0		87	91	58	62	7.9	SSW	48	26	1965		5.4	9	12	10	8	0	5	2	3	0	0	0	
S	75.6	52.0	63.8	90	1966+	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		86	89	58	65	8.7	SSW	52	20	1961		5.3	10	9	11	9	0	5	1	1	0	0	0	
O	64.1	40.9	52.5	90	1963	22	1969	400	2.70	8.32	1969	0.01	1952	5.22	1954	0.2	2.2	1967	2.2	1967	77	83	55	63	9.4	SSW	37	25	1961		5.3	12	7	12	8	*	2	2	0	0	7	0	
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.4	14.7	1951	9.5	1951	80	83	65	72	10.3	WNW	46	20	1961		6.8	7	7	16	8	1	1	3	0	2	19	0	
D	33.5	17.7	25.6	65	1970	-20	1963	1221	1.70	3.31	1968	0.37	1955	1.91	1965	7.6	18.4	1951	8.0	1954	82	83	72	77	10.3	WNW	44	29	1970		7.0	7	6	18	9	3	*	3	0	14	26	2	
YR	58.8	38.3	48.6	99	JUL. 1965	-22	JAN. 1970	6830	35.62	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	32.2	22.7	MAR. 1964	10.9	FEB. 1960	80	83	60	64	9.9	WNW	54	11	APR. 1953		6.2	97	103	165	112	11	42	24	11	54	144	15	

Ø For period September 1963 through the current year.
Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
• Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≥ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "Ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

Un3aroc
1970

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.2	33.9	34.3	50.4	56.3	73.7	76.6	72.3	69.9	56.5	46.3	34.3	52.8
1932	30.1	31.9	27.9	47.6	61.8	71.4	75.5	73.2	62.6	50.3	34.2	25.4	49.3
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
1970	12.5	22.4	33.1	48.5	60.4	68.5	73.6	71.4	63.6	52.8	37.7	26.6	47.6
RECORD MEAN	21.3	24.8	35.3	48.3	59.4	69.1	73.9	72.0	64.2	52.7	38.5	25.8	48.8
MAX	29.9	33.4	44.6	59.4	71.2	80.6	85.8	83.8	75.9	63.9	47.3	33.6	59.1
MIN	12.6	16.1	25.9	37.2	47.6	57.6	62.0	60.2	52.4	41.4	29.6	17.9	38.4

TOTAL DEGREE DAYS

ROCKFORD, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1931-32	0	8	60	290	567	960	1092	968	1154	528	145	3	5775
1932-33	4	2	129	464	932	1233	974	1204	936	562	170	14	6624
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
#1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256	1627	1191	983	502	203	44	7257
1970-71	5	2	117	377	812	1182							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.71	0.39	3.09	1.89	3.66	3.57	4.10	2.78	4.54	3.96	5.37	2.32	36.38
1932	1.90	0.41	3.52	1.22	2.23	3.01	2.39	2.51	2.05	5.76	0.79	1.82	27.61
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
1970	0.51	0.56	1.89	3.75	5.50	4.20	4.29	0.67	10.63	4.03	1.36	1.37	38.76
RECORD MEAN	1.76	1.38	2.49	3.35	3.74	4.34	3.68	3.64	3.98	2.82	2.32	1.59	35.09

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1931-32	0.0	0.0	0.0	0.0	T	9.3	2.0	0.5	21.5	T	0.0	0.0	33.3
1932-33	0.0	0.0	0.0	T	T	3.5	0.5	5.0	12.0	T	0.0	0.0	21.0
1933-34	0.0	0.0	0.0	T	1.0	4.5	T	2.8	0.5	T	0.0	0.0	8.8
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0	8.2	5.4	6.4	6.7	0.0	0.0	43.3
1970-71	0.0	0.0	0.0	0.0	T	3.2							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

Requests for additional information should be directed to the National Weather Service Office for which this summary was issued.

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U.S. DEPARTMENT OF COMMERCE
MAURICE H. STANS, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA
1969
ROCKFORD, ILLINOIS

NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: ROCKFORD, ILLINOIS — GREATER ROCKFORD AIRPORT — Standard time used: CENTRAL — Latitude: 42° 12' N — Longitude: 89° 06' W — Elevation (ground): 724 feet — Year: 1969

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days (Base 65°): Heating	Cooling	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90° and above	‡	Minimum: 32° and below	0° and below	Average daily solar radiation - langleys
JAN	24.6	11.2	17.9	43	23	-10	4+	1453	0	1.86	0.69	15-16	4.6	2.6	5-6	82	79	75	77	23	3.6	11.2	27	25	25+		7.7	6	3	22	11	2	0	8	0	20	27	11	
FEB	34.6	22.0	28.3	41	25	7	13+	1017	0	0.04	0.03	8	0.8	0.5	8	81	82	66	71	02	4.0	10.5	29	29	11		7.2	6	4	18	2	0	0	0	0	8	27	0	
MAR	41.3	20.6	31.0	69	18	8	30+	1047	0	1.59	0.95	24-25	4.9	4.4	25-26	78	85	53	57	31	4.5	10.8	27	03	24		5.0	13	6	12	5	1	0	0	0	7	28	0	
APR	59.7	37.0	48.4	75	26	24	3	490	0	4.45	1.37	4	T	T	28	79	84	60	59	09	1.2	11.4	40	19	21		6.3	8	7	15	11	0	6	4	0	0	9	0	
MAY	70.9	47.9	59.4	90	28	35	23	210	45	5.75	2.64	17-18	0.0	0.0		77	81	54	54	20	1.0	10.0	25	29	11		6.5	5	13	13	10	0	2	3	1	0	0	0	
JUN	73.3	53.8	63.6	88	26	41	9	120	82	8.90	4.15	7-8	0.0	0.0		78	80	62	60	25	1.2	10.7	30	28	25+		6.9	6	7	17	18	0	16	0	0	0	0	0	
JUL	81.2	63.9	72.6	92	4	55	2	4	244	5.72	3.63	25-26	0.0	0.0		83	86	63	63	19	0.5	8.1	25	27	26		6.6	5	13	13	10	0	4	1	2	0	0	0	
AUG	82.5	60.8	71.7	90	31+	48	22	1	213	2.14	0.67	11	0.0	0.0		86	89	56	62	21	2.9	6.9	24	27	7		3.8	15	12	4	5	0	4	5	2	0	0	0	
SEP	73.4	52.7	63.1	82	13	40	28	115	66	1.87	0.92	4-5	0.0	0.0		82	87	55	62	10	0.5	8.6	20	19	29+		6.0	8	9	13	11	0	3	1	0	0	0	0	
OCT	59.1	40.4	49.8	86	4	22	28+	486	21	8.32	3.22	12-13	0.0	0.0		75	82	57	62	22	2.1	10.2	30	22	9		6.0	11	4	16	11	0	5	1	0	0	10	0	
NOV	45.7	27.6	36.7	61	6	12	20	845	0	1.45	1.02	3	0.6	0.4	14	78	82	61	68	27	3.9	10.0	25	27	12		6.9	7	6	17	7	0	0	6	0	2	21	0	
DEC	31.6	16.8	24.2	47	2	2	26+	1256	0	1.20	0.50	7	16.0	7.2	22-23	78	81	68	73	30	1.8	10.2	23	32	18		8.0	2	9	20	9	6	0	1	0	18	30	0	
YEAR	56.5	37.9	47.2	92	JUL. 4	-10	JAN. 4+	7044	671	43.29	4.15	JUN. 7-8	26.9	7.2	DEC. 22-23	80	83	61	64	27	1.1	9.9	40	19	APR. 21		6.4	92	93	180	110	9	40	30	5	55	152	11	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes Ø: Record highest	Year	Record lowest	Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Mean speed	Prevailing direction	Fastest mile: Speed	Direction	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	‡	Min.: 32° and below	0° and below	Average daily solar radiation - langleys
(a)	(b)	(b)	(b)	6		6		(b)	(b)	19		19		19		19	19		19		6	6	6	6	19	13	19	19			19	19	19	19	19	19	19	19	6	6	6	6	
J	30.2	13.7	22.0	60	1967	-20	1966	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.2	21.4	1959	9.3	1966	78	78	70	74	9.9	WNW	40	27	1967		6.8	7	7	17	9	3	*	3	0	18	29	8	
F	32.7	16.1	24.4	55	1965	-16	1965	1137	1.44	2.24	1959	0.04	1969	1.73	1966	5.3	19.5	1960	10.9	1960	75	77	61	66	10.5	WNW	45	25	1953		6.4	8	5	15	7	2	*	3	0	14	28	4	
M	42.9	25.1	34.0	76	1967	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	7.5	22.7	1964	7.6	1961	77	80	59	63	11.4	ENE	46	25	1953		6.8	6	9	16	11	2	2	2	0	5	25	0	
A	58.7	36.9	47.8	83	1964	16	1967	516	3.05	8.17	1964	1.90	1958	3.03	1963	0.7	4.4	1961	4.4	1961	77	82	59	61	11.6	WNW	54	11	1953		6.7	6	9	15	12	*	5	1	0	0	8	0	
M	70.5	47.7	59.1	90	1969+	24	1966	236	3.83	5.75	1969	1.44	1961	2.64	1969	0.1	1.0	1966	T	1967+	76	80	53	54	10.8	ENE	47	23	1954		6.2	8	9	14	11	*	5	1	*	0	2	0	
J	80.9	58.4	69.7	94	1965	41	1969	60	4.30	9.98	1967	1.45	1957	4.15	1969	0.0	0.0		0.0		77	81	56	56	9.3	SSW	46	23	1968+		6.1	7	11	12	11	0	8	1	2	0	0	0	
J	86.3	62.1	74.2	99	1965	43	1967	6	4.14	11.81	1952	1.32	1967	5.03	1952	0.0	0.0		0.0		82	86	57	58	8.0	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	5	0	0	0	
A	84.2	60.8	72.5	93	1968+	43	1965+	9	4.14	9.27	1965	1.12	1961	3.58	1968	0.0	0.0		0.0		88	91	59	63	7.9	SSW	48	26	1965		5.4	9	12	10	8	0	6	2	3	0	0	0	
S	75.6	52.0	63.8	90	1966+	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		86	89	57	64	8.7	SSW	52	20	1961		5.3	10	9	11	9	0	4	1	1	0	0	0	
O	64.1	40.9	52.5	90	1963	22	1969	400	2.70	8.32	1969	0.01	1952	5.22	1954	0.2	2.2	1967	2.2	1967	77	82	54	62	9.3	SSW	37	25	1961		5.3	12	7	12	8	*	2	2	0	0	7	0	
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.5	14.7	1951	9.5	1951	80	83	65	72	10.3	WNW	46	20	1961		6.7	7	7	16	7	1	1	3	0	2	20	0	
D	33.5	17.7	25.6	56	1967+	-20	1963	1221	1.70	3.31	1968	0.37	1955	1.91	1965	7.9	18.4	1951	8.0	1954	82	83	73	78	10.2	WNW	40	25	1951		7.0	7	6	18	9	3	*	3	0	14	27	2	
YR	58.8	38.3	48.6	99	JUL. 1965	-20	JAN. 1966+	6830	35.62	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	32.4	22.7	MAR. 1964	10.9	FEB. 1960	79	83	60	64	9.8	WNW	54	11	APR. 1953		6.2	96	104	165	112	11	41	24	11	54	145	14	

Ø For period September 1963 through the current year.
Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
• Less than one half.
+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≤ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

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AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.2	33.9	34.3	50.4	56.3	73.7	76.6	72.3	69.9	56.5	46.3	34.3	52.8
1932	30.1	31.9	27.9	47.6	61.8	71.4	75.5	73.2	62.6	50.3	34.2	25.4	49.3
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
#1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
#1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
1969	17.9	28.3	31.0	48.4	59.4	63.6	72.6	71.7	63.1	49.8	36.7	24.2	47.2
RECORD MEAN	21.4	24.8	35.3	48.3	59.3	69.1	74.0	72.0	64.2	52.7	38.5	25.7	48.8
MAX	30.0	33.5	44.6	59.4	71.1	80.6	85.9	83.8	75.9	64.0	47.4	33.5	59.1
MIN	12.7	16.1	25.9	37.1	47.5	57.6	62.0	60.2	52.4	41.4	29.6	17.9	38.4

TOTAL DEGREE DAYS

ROCKFORD, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	13	8	80	488	736	1195	1119	878	960	447	306	40	6270
1931-32	0	8	60	290	567	960	1092	968	1154	528	145	3	5775
1932-33	4	2	129	464	932	1233	974	1204	936	562	170	14	6624
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
#1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
#1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224	1453	1017	1047	490	210	120	6894
1969-70	4	1	115	486	845	1256							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.71	0.39	3.09	1.89	3.66	3.57	4.10	2.78	4.54	3.96	5.37	2.32	36.38
1932	1.90	0.41	3.52	1.22	2.23	3.01	2.39	2.51	2.05	5.76	0.79	1.82	27.61
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
#1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
1969	1.86	0.04	1.59	4.45	5.75	8.90	5.72	2.14	1.87	8.32	1.45	1.20	43.29
RECORD MEAN	1.78	1.40	2.50	3.35	3.71	4.34	3.67	3.69	3.87	2.80	2.34	1.59	35.04

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	T	2.0	5.0	5.5	1.0	13.0	T	0.0	0.0	26.5
1931-32	0.0	0.0	0.0	0.0	T	9.3	2.0	0.5	21.5	T	0.0	0.0	33.3
1932-33	0.0	0.0	0.0	T	T	3.5	0.5	5.0	12.0	T	0.0	0.0	21.0
1933-34	0.0	0.0	0.0	T	1.0	4.5	T	2.8	0.5	T	0.0	0.0	8.8
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
#1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9	4.6	0.8	4.9	T	0.0	0.0	23.7
1969-70	0.0	0.0	0.0	0.0	0.6	16.0							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table. Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA, 1968

ROCKFORD, ILLINOIS

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NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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ENVIRONMENTAL DATA SERVICE

LATITUDE 42° 12' N
LONGITUDE 89° 06' W
ELEVATION (ground) 724 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT
1968

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity (Standard time used: CENTRAL): Mid.	6 AM	Noon	6 PM	Wind &: Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90° and above	32° and below	Minimum: 32° and below	0° and below
JAN	29.6	12.8	21.2	49	29	-17	7	1349	0.58	0.21	31	2.9	1.1	12-13	80	81	72	78	23	1.1	11.1	27	31	4		7.0	7	8	16	7	0	0	3	0	18	27	10
FEB	31.3	11.0	21.2	48	1	- 4	21	1266	0.37	0.42	31-1	2.3	1.2	2	70	76	51	57	31	7.7	11.3	30	30	16		4.0	16	5	8	5	1	1	1	0	17	28	5
MAR	51.8	28.9	40.4	74	28	9	3	754	1.00	0.56	18-19	0.6	0.5	21	72	77	49	53	27	2.4	11.5	31	18	14		6.2	9	7	15	5	0	1	2	0	1	22	0
APR	60.5	38.9	49.7	76	12	25	5+	453	4.92	1.36	16-17	0.3	0.3	24	74	82	56	58	22	5.4	12.7	35	21	23+		6.4	7	8	15	10	0	5	1	0	0	6	0
MAY	66.4	45.8	56.1	83	2	32	6	275	3.78	1.60	15-16	0.0	0.0		82	86	61	60	17	1.1	10.6	35	26	16		7.0	5	11	15	14	0	4	1	0	0	1	0
JUN	79.6	59.6	69.6	91	10+	48	13	24	6.26	1.75	9	0.0	0.0		75	81	57	55	23	2.9	9.6	46	23	29		6.2	5	14	11	14	0	11	0	2	0	0	0
JUL	81.1	60.6	70.9	90	16+	48	11+	15	2.62	0.97	17	0.0	0.0		81	83	58	55	22	2.6	8.6	21	15	23+		5.4	10	12	9	9	0	7	1	4	0	0	0
AUG	81.5	61.2	71.4	93	6	46	28+	21	6.33	3.58	16	0.0	0.0		87	89	60	63	21	2.3	8.4	35	30	6		5.3	12	7	12	9	0	8	3	6	0	0	0
SEP	73.4	53.0	63.2	87	3	42	28+	95	6.76	2.48	18-19	0.0	0.0		88	89	62	68	20	3.9	8.9	25	16	19		5.6	10	7	13	13	0	5	0	0	0	0	0
OCT	63.1	43.2	53.2	83	15	28	29	393	1.26	0.63	21-22	0.0	0.0		76	82	55	63	21	4.8	10.3	32	19	17		5.3	11	10	10	8	0	1	0	0	0	5	0
NOV	44.8	30.7	37.8	65	1	19	30	809	2.80	0.96	14-15	4.5	4.5	28	79	84	65	72	31	3.7	9.3	25	4	28		7.7	5	5	20	8	1	0	0	0	2	20	0
DEC	32.3	18.3	25.3	53	12	-12	31	1224	3.31	1.09	18-19	8.9	3.2	28	80	80	70	75	25	3.7	12.5	36	30	5		7.6	7	3	21	11	3	0	2	0	16	27	2
YEAR	58.0	38.7	48.4	93	AUG. 6	-17	JAN. 7	6678	39.99	3.58	AUG. 16	19.5	4.5	NOV. 28	79	83	60	63	24	2.6	10.4	46	23	JUN. 29		6.1	104	97	165	113	5	43	14	12	54	136	17

NORMALS, MEANS, AND EXTREMES

Month	Temperature Ø: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity (Standard time used: CENTRAL): Mid.	6 AM	Noon	6 PM	Wind &: Mean hourly speed	Prevailing direction	Fastest mile: Speed	Direction	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32° and below	Min.: 32° and below	0° and below
(a)	(b)	(b)	(b)	5		5		(b)	(b)	18		18		18		18	18		18		5	5	5	5	18	13	18	18			18	18	18	18	18	18	18	18	5	5	5	5
J	30.2	13.7	22.0	60	1967	-20	1966	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.4	21.4	1959	9.3	1966	77	78	68	74	9.9	WNW	40	27	1967		6.7	7	7	17	9	3	*	3	0	17	29	7
F	32.7	16.1	24.4	55	1965	-16	1965	1137	1.44	2.24	1959	0.26	1952	1.73	1966	5.5	19.5	1960	10.9	1960	73	76	60	65	10.5	WNW	45	25	1953		6.3	8	6	14	8	2	*	3	0	15	28	5
M	42.9	25.1	34.0	76	1967	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	7.6	22.7	1964	7.6	1961	76	79	60	64	11.4	ENE	46	25	1953		6.9	6	8	17	11	3	2	2	0	5	25	0
A	58.7	36.9	47.8	83	1964	16	1967	516	3.05	8.17	1964	1.90	1958	3.03	1963	0.8	4.4	1961	4.4	1961	77	82	59	61	11.7	WNW	54	11	1953		6.7	6	8	16	12	*	4	1	0	0	8	0
M	70.5	47.7	59.1	90	1967	24	1966	236	3.83	5.66	1965	1.44	1961	2.55	1966	0.1	1.0	1966	T	1967+	76	80	53	54	10.9	ENE	47	23	1954		6.2	8	9	14	11	*	5	1	*	0	2	0
J	80.9	58.4	69.7	94	1965	42	1966+	60	4.30	9.98	1967	1.45	1957	3.32	1967	0.0	0.0		0.0		77	81	55	55	9.2	SSW	46	23	1968+		6.0	7	11	12	11	0	7	1	2	0	0	0
J	86.3	62.1	74.2	99	1965	43	1967	6	4.14	11.81	1952	1.32	1967	5.03	1952	0.0	0.0		0.0		82	85	56	56	8.0	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	5	0	0	0
A	84.2	60.8	72.5	93	1968+	43	1965+	9	4.14	9.27	1965	1.12	1961	3.58	1968	0.0	0.0		0.0		88	91	59	63	7.9	SSW	48	26	1965		5.5	9	11	11	9	0	6	2	3	0	0	0
S	75.6	52.0	63.8	90	1966+	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		86	89	58	64	8.7	SSW	52	20	1961		5.2	11	9	10	9	0	5	1	1	0	0	0
O	64.1	40.9	52.5	90	1963	24	1966+	400	2.70	7.92	1954	0.01	1952	5.22	1954	0.2	2.2	1967	2.2	1967	77	82	54	62	9.3	SSW	37	25	1961		5.2	12	8	11	8	*	2	2	0	0	7	0
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.6	14.7	1951	9.5	1951	80	83	66	72	10.3	WNW	46	20	1961		6.7	7	7	16	8	1	1	3	0	2	20	0
D	33.5	17.7	25.6	56	1967+	-20	1963	1221	1.70	3.31	1968	0.37	1955	1.91	1965	7.4	18.4	1951	8.0	1954	83	84	73	79	10.2	WNW	40	25	1951		7.0	7	6	18	9	3	*	3	0	14	26	2
YR	58.8	38.3	48.6	99	JUL. 1965	-20	JAN. 1966+	6830	35.62	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	32.6	22.7	MAR. 1964	10.9	FEB. 1960	79	82	60	64	9.8	WNW	54	11	APR. 1953		6.2	97	103	165	112	11	41	23	12	53	144	14

Ø For period September 1963 through the current year.
Means and extremes in the above table are from the existing location. Annual extremes have been exceeded at other locations as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure.
Below-zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

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1968

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.2	33.9	34.3	50.4	56.3	73.7	76.6	72.3	69.9	56.5	46.3	34.3	52.8
1932	30.1	31.9	27.9	47.6	61.8	71.4	75.5	73.2	62.6	50.3	34.2	25.4	49.3
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
1968	21.2	21.2	40.4	49.7	56.1	69.6	70.9	71.4	63.2	53.2	37.8	25.3	48.4
RECORD MEAN	21.5	24.8	35.4	48.3	59.3	69.3	73.9	72.0	64.2	52.8	38.6	25.8	48.8
RECORD MAX	30.1	33.5	44.7	59.4	71.1	80.8	85.9	83.8	75.9	64.1	47.4	33.6	59.2
RECORD MIN	12.8	16.0	26.0	37.1	47.5	57.7	61.9	60.2	52.4	41.4	29.7	17.9	38.4

TOTAL DEGREE DAYS

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	13	8	80	488	736	1195	1119	878	960	447	306	40	6270
1931-32	0	8	60	290	567	960	1092	968	1154	528	145	3	5775
1932-33	4	2	129	464	932	1233	974	1204	936	562	170	14	6624
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149	1349	1266	754	453	275	24	6846
1968-69	15	21	95	393	809	1224							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.71	0.39	3.09	1.89	3.66	3.57	4.10	2.78	4.54	3.96	5.37	2.32	36.38
1932	1.90	0.41	3.52	1.22	2.23	3.01	2.39	2.51	2.05	5.76	0.79	1.82	27.61
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
1968	0.58	0.37	1.00	4.92	3.78	6.26	2.62	6.33	6.76	1.26	2.80	3.31	39.99
RECORD MEAN	1.77	1.42	2.52	3.33	3.68	4.27	3.64	3.71	3.90	2.71	2.35	1.60	34.90

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	T	2.0	5.0	5.5	1.0	13.0	T	0.0	0.0	26.5
1931-32	0.0	0.0	0.0	0.0	T	9.3	2.0	0.5	21.5	T	0.0	0.0	33.3
1932-33	0.0	0.0	0.0	T	T	3.5	0.5	5.0	12.0	T	0.0	0.0	21.0
1933-34	0.0	0.0	0.0	T	1.0	4.5	T	2.8	0.5	T	0.0	0.0	8.8
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0	2.9	2.3	0.6	0.3	0.0	0.0	11.0
1968-69	0.0	0.0	0.0	0.0	4.5	8.9							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table). Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi.NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA, 1967

ROCKFORD, ILLINOIS

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NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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ENVIRONMENTAL DATA SERVICE

LATITUDE 42° 12' N
LONGITUDE 89° 06' W
ELEVATION (ground) 724 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT
1967

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity: Mid.	6 AM	Noon	6 PM	Wind & Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90 and above	32 and below	Minimum: 32 and below	0 and below
															Standard time used: CENTRAL																						
JAN	33.3	15.8	24.6	60	24	-16	18	1244	1.41	0.78	24	8.1	3.3	26-27	76	79	72	74	25	4.6	12.4	40	27	16		7.1	4	10	17	10	3	1	2	0	15	29	5
FEB	26.7	7.1	16.9	45	14	-11	25	1341	0.92	0.38	5	11.6	4.2	1	73	76	67	67	27	4.2	12.2	29	33	15		5.6	10	6	12	7	4	0	1	0	19	28	8
MAR	43.2	28.6	35.9	76	30	7	8	892	1.63	0.87	19-20	6.5	6.3	19-20	76	78	65	68	15	0.7	11.2	24	20	30		7.8	4	6	21	6	2	1	3	0	5	21	0
APR	57.8	37.8	47.8	80	16	16	24	513	5.30	1.77	20-21	3.8	3.8	23	75	77	61	63	19	2.1	12.4	36	22	14		7.7	1	10	19	15	1	6	3	0	0	9	0
MAY	64.6	41.1	52.9	90	26	29	6	385	2.48	1.75	10-11	T	T	4	68	71	44	46	03	1.6	12.2	46	27	18		6.1	7	12	12	8	0	4	0	1	0	4	0
JUN	78.1	58.6	68.4	88	15	44	3	22	9.98	3.32	10	0.0	0.0		81	81	58	59	19	3.1	9.4	38	21	12		6.5	6	10	14	12	0	11	1	0	0	0	0
JUL	80.4	58.7	69.6	91	24+	43	5	42	1.32	0.88	26	0.0	0.0		85	88	56	58	26	2.4	8.5	25	2	23		5.3	8	18	5	9	0	9	2	3	0	0	0
AUG	76.8	55.4	66.1	86	16+	44	12	51	3.71	1.12	18	0.0	0.0		92	94	63	65	28	1.2	8.3	25	31	3		4.9	12	9	10	11	0	7	3	0	0	0	0
SEP	73.7	51.0	62.4	86	20	36	30	134	3.11	1.10	20-21	0.0	0.0		88	92	55	63	13	1.0	8.5	23	32	26		4.6	13	7	10	8	0	4	4	0	0	0	0
OCT	60.3	42.3	51.3	86	4	28	21	439	5.06	1.46	24	2.2	2.2	26-27	80	84	64	70	24	2.5	11.2	28	28	20		6.9	6	7	18	12	1	2	0	0	0	5	0
NOV	41.1	27.7	34.4	57	11	13	28	910	2.58	1.31	1-2	0.7	0.7	20	80	83	66	72	27	4.8	11.0	25	31	18+		7.3	6	5	19	8	0	0	2	0	4	24	0
DEC	35.1	20.3	27.7	56	21	-15	31	1149	1.55	0.32	6-7	2.0	1.5	30-31	85	88	75	80	25	2.8	11.1	23	28	21		7.4	6	7	18	13	1	3	5	0	10	24	1
YEAR	55.9	37.0	46.5	91	JUL. 24+	-16	JAN. 18	7122	39.05	3.32	JUN. 10	34.9	6.3	MAR. 19-20	80	83	62	65	25	1.9	10.7	46	27	MAY 18		6.4	83	107	175	119	12	48	26	4	53	144	14

NORMALS, MEANS, AND EXTREMES

Month	Temperature Ø: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity: Mid.	6 AM	Noon	6 PM	Wind & Mean hourly speed	Prevailing direction	Fastest mile: Speed	Direction	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32° and below	Min.: 32° and below	0°and below
																					Standard time used: CENTRAL																								
(a)	(b)	(b)	(b)	4		4		(b)	(b)	17		17		17		17	17		17		4	4	4	4	17	13	17	17			17	17	17	17	17	17	17	17	4	4	4	4
J	30.2	13.7	22.0	60	1967	-20	1966	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.8	21.4	1959	9.3	1966	76	77	68	73	9.8	WNW	40	27	1967		6.7	7	7	17	9	3	*	3	0	17	29	7
F	32.7	16.1	24.4	55	1965	-16	1965	1137	1.44	2.24	1959	0.26	1952	1.73	1966	5.7	19.5	1960	10.9	1960	74	76	63	67	10.4	WNW	45	25	1953		6.5	7	6	15	8	2	*	3	0	15	28	5
M	42.9	25.1	34.0	76	1967	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	8.0	22.7	1964	7.6	1961	78	79	63	67	11.4	ENE	46	25	1953		6.9	6	8	17	11	3	2	2	0	6	26	0
A	58.7	36.9	47.8	83	1964	16	1967	516	3.05	8.17	1964	1.90	1958	3.03	1963	0.8	4.4	1961	4.4	1961	78	82	60	62	11.6	WNW	54	11	1953		6.7	6	8	16	12	*	4	1	0	0	9	0
M	70.5	47.7	59.1	90	1967	24	1966	236	3.83	5.66	1965	1.44	1961	2.55	1966	0.1	1.0	1966	T	1967+	74	78	51	53	10.9	ENE	47	23	1954		6.2	8	9	14	11	*	5	1	*	0	3	0
J	80.9	58.4	69.7	94	1965	42	1966+	60	4.30	9.98	1967	1.45	1957	3.32	1967	0.0	0.0		0.0		78	81	54	55	9.2	SSW	46	34	1963		6.0	7	11	12	10	0	7	1	3	0	0	0
J	86.3	62.1	74.2	99	1965	43	1967	6	4.14	11.81	1952	1.32	1967	5.03	1952	0.0	0.0		0.0		83	86	55	57	8.0	SSW	50	29	1951		5.5	9	13	9	10	0	8	1	6	0	0	0
A	84.2	60.8	72.5	93	1964	43	1965+	9	4.14	9.27	1965	1.12	1961	2.20	1965	0.0	0.0		0.0		89	92	59	63	7.9	SSW	48	26	1965		5.5	9	12	10	9	0	6	2	2	0	0	0
S	75.6	52.0	63.8	90	1966+	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		86	89	57	64	8.7	SSW	52	20	1961		5.2	11	9	10	8	0	4	1	1	0	0	0
O	64.1	40.9	52.5	90	1963	24	1966+	400	2.70	7.92	1954	0.01	1952	5.22	1954	0.2	2.2	1967	2.2	1967	77	82	53	62	9.2	SSW	37	25	1961		5.2	12	7	12	8	*	2	2	0	0	7	0
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.5	14.7	1951	9.5	1951	80	83	66	73	10.3	WNW	46	20	1961		6.6	7	7	16	7	1	1	3	0	3	20	0
D	33.5	17.7	25.6	56	1967+	-20	1963	1221	1.70	3.06	1957	0.37	1955	1.91	1965	7.3	18.4	1951	8.0	1954	83	85	74	80	10.0	WNW	40	25	1951		7.0	7	6	18	9	2	*	3	0	13	26	2
YR	58.8	38.3	48.6	99	JUL. 1965	-20	JAN. 1966+	6830	35.62	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	33.4	22.7	MAR. 1964	10.9	FEB. 1960	80	82	60	64	9.8	WNW	54	11	APR. 1953		6.2	96	103	166	112	11	41	24	12	53	146	14

Ø For period September 1963 through the current year.
Means and extremes in the above table are from the existing location. Annual extremes have been exceeded at other locations as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure.
Below-zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

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Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.2	33.9	34.3	50.4	56.3	73.7	76.6	72.3	69.9	56.5	46.3	34.3	52.8
1932	30.1	31.9	27.9	47.6	61.8	71.4	75.5	73.2	62.6	50.3	34.2	25.4	49.3
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
1967	24.6	16.9	35.9	47.8	52.9	68.4	69.6	66.1	62.4	51.3	34.4	27.7	46.5
RECORD MEAN	21.5	24.8	35.3	48.3	59.4	69.2	74.0	72.1	64.2	52.8	38.5	25.8	48.8
MAX	30.1	33.5	44.6	59.4	71.2	80.8	86.0	83.9	76.0	64.1	47.4	33.6	59.2
MIN	12.8	16.1	26.0	37.1	47.6	57.6	62.0	60.2	52.4	41.4	29.6	17.9	38.4

TOTAL DEGREE DAYS

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	13	8	80	488	736	1195	1119	878	960	447	306	40	6270
1931-32	0	8	60	290	567	960	1092	968	1154	528	145	3	5775
1932-33	4	2	129	464	932	1233	974	1204	936	562	170	14	6624
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238	1244	1341	892	513	385	22	6954
1967-68	42	51	134	439	910	1149							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.71	0.39	3.09	1.89	3.66	3.57	4.10	2.78	4.54	3.96	5.37	2.32	36.38
1932	1.90	0.41	3.52	1.22	2.23	3.01	2.39	2.51	2.05	5.76	0.79	1.82	27.61
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
1967	1.41	0.92	1.63	5.30	2.48	9.98	1.32	3.71	3.11	5.06	2.58	1.55	39.05
RECORD MEAN	1.79	1.44	2.54	3.31	3.68	4.24	3.66	3.67	3.86	2.73	2.34	1.57	34.83

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	T	2.0	5.0	5.5	1.0	13.0	T	0.0	0.0	26.5
1931-32	0.0	0.0	0.0	0.0	T	9.3	2.0	0.5	21.5	T	0.0	0.0	33.3
1932-33	0.0	0.0	0.0	T	T	3.5	0.5	5.0	12.0	T	0.0	0.0	21.0
1933-34	0.0	0.0	0.0	T	1.0	4.5	T	2.8	0.5	T	0.0	0.0	8.8
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.7	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8	8.1	11.6	6.5	3.8	T	0.0	37.8
1967-68	0.0	0.0	0.0	2.2	0.7	2.0							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table). Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA, 1966

ROCKFORD, ILLINOIS

NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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U.S. DEPARTMENT OF COMMERCE
JOHN T. CONNOR, Secretary
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ROBERT M. WHITE, Administrator
ENVIRONMENTAL DATA SERVICE

LATITUDE 42° 12' N
LONGITUDE 89° 06' W
ELEVATION (ground) 724 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT
1966

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST	Wind & Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90 and above	32 and below	Minimum: 32 and below	0 and below
JAN	22.7	4.1	13.4	45	9+	-20	29	1595	1.39	1.02	12-13	11.0	9.3	12-13	72	70	62	68	30	3.9	10.2	29	26	10		5.0	13	8	10	6	1	0	2	0	24	31	13
FEB	32.6	15.2	23.9	48	9	- 3	20	1142	2.04	1.73	9-10	0.3	0.3	18	72	74	61	65	32	1.7	9.8	27	29	16		6.4	7	7	14	6	0	0	4	0	13	26	4
MAR	47.5	27.6	37.6	73	17	14	25+	844	2.75	0.94	22-23	1.0	0.6	4-5	73	76	56	60	22	2.5	11.4	29	26	18		7.1	4	9	18	12	0	3	2	0	3	23	0
APR	53.5	34.6	44.1	70	24	23	10	620	4.96	1.42	22-23	T	T	8 +	77	83	55	57	01	2.2	10.5	29	22	19		6.9	5	10	15	12	0	2	1	0	0	11	0
MAY	62.9	39.9	51.4	81	26	24	10	417	4.76	2.55	11-12	1.0	1.0	11	77	78	50	54	04	0.7	9.7	35	31	18		4.5	15	9	7	9	1	2	5	0	0	6	0
JUN	80.4	57.9	69.2	92	25	42	2	45	4.53	1.42	9	0.0	0.0		77	82	53	52	23	3.0	8.6	23	30	14+		5.4	9	11	10	11	0	8	2	3	0	0	0
JUL	87.0	63.3	75.4	98	18+	50	21	0	1.59	0.85	26-27	0.0	0.0		81	86	52	55	22	0.3	7.5	29	36	11		4.8	13	11	7	5	0	7	0	12	0	0	0
AUG	81.8	57.5	69.7	90	31+	48	24	7	1.50	0.73	1	0.0	0.0		90	93	54	58	24	2.7	7.9	28	25	15		4.7	11	14	6	4	0	3	1	2	0	0	0
SEP	74.5	50.5	62.5	90	2+	38	26	122	1.18	0.68	14	0.0	0.0		84	90	46	53	33	1.9	7.6	24	29	29		5.3	10	9	11	5	0	1	0	2	0	0	0
OCT	63.8	39.0	51.4	80	9+	24	30	417	2.51	1.13	12-13	0.0	0.0		77	81	45	54	24	6.1	10.7	29	29	10		4.1	15	9	7	5	0	1	0	0	0	8	0
NOV	47.6	30.3	39.0	70	7	16	19	773	3.53	1.30	26-27	T	T	30 +	82	85	65	71	27	3.2	12.0	30	34	28		7.0	6	8	16	8	0	6	3	0	0	21	0
DEC	32.0	17.5	24.8	54	8	- 3	1	1238	2.16	0.77	7-8	7.8	4.9	27-28	83	85	75	79	27	2.2	9.9	22	22	28+		6.7	8	6	17	8	2	2	3	0	15	27	4
YEAR	57.2	36.5	46.9	98	JUL. 18+	-20	JAN. 29	7220	32.90	2.55	MAY 11-12	21.1	9.3	JAN. 12-13	79	82	56	61	27	1.8	9.7	35	31	MAY 18		5.7	116	111	138	91	4	35	23	19	55	153	21

NORMALS, MEANS, AND EXTREMES

Month	Temperature ø: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST	Wind: Mean hourly speed	Prevailing direction	Fastest mile: Speed	Direction	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32 and below	Min.: 32° and below	0° and below
(a)	(b)	(b)	(b)	3		3		(b)	(b)	16		16		16		16	16		16		3	3	3	3	16	13					16	16	16	16	16	16	16	16	3	3	3	3
J	30.2	13.7	22.0	55	1965+	-20	1966	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.8	21.4	1959	9.3	1966	76	76	66	72	9.6	WNW					6.7	7	7	17	9	3	*	3	0	18	29	7
F	32.7	16.1	24.4	55	1965	-16	1965	1137	1.44	2.24	1959	0.26	1952	1.73	1966	5.4	19.5	1960	10.9	1960	74	75	61	67	10.3	WNW					6.5	7	6	15	8	2	*	3	0	13	27	3
M	42.9	25.1	34.0	73	1966	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	8.1	22.7	1964	7.6	1961	78	79	62	67	11.4	ENE					6.8	6	8	17	12	3	2	2	0	6	27	0
A	58.7	36.9	47.8	83	1964	22	1964	516	3.05	8.17	1964	1.90	1958	3.03	1963	0.6	4.4	1961	4.4	1961	78	83	59	62	11.5	WNW					6.6	7	8	15	12	*	4	1	0	0	8	0
M	70.5	47.7	59.1	87	1964	24	1966	236	3.83	5.66	1965	1.44	1961	2.55	1966	0.1	1.0	1966	T	1960+	76	80	54	55	10.8	ENE					6.2	8	9	14	11	*	6	1	0	0	2	0
J	80.9	58.4	69.7	94	1965	42	1966+	60	4.30	6.51	1964	1.45	1957	3.22	1952	0.0	0.0		0.0		76	81	53	54	9.1	SSW					6.0	7	11	12	10	0	7	1	3	0	0	0
J	86.3	62.1	74.2	99	1965	47	1965	6	4.14	11.81	1952	1.59	1966	5.03	1952	0.0	0.0		0.0		82	85	55	56	8.0	SSW					5.5	9	13	9	10	0	8	1	7	0	0	0
A	84.2	60.8	72.5	93	1964	43	1965+	9	4.14	9.27	1965	1.12	1961	2.20	1965	0.0	0.0		0.0		87	91	58	62	7.9	SSW					5.6	9	12	10	8	0	5	2	3	0	0	0
S	75.6	52.0	63.8	90	1966+	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		85	88	57	64	8.7	SSW					5.3	10	10	10	9	0	5	1	1	0	0	0
O	64.1	40.9	52.5	90	1963	24	1966+	400	2.70	7.92	1954	0.01	1952	5.22	1954	0.1	1.1	1959	1.1	1959	76	81	50	59	9.1	SSW					5.1	12	8	11	7	*	2	2	0	0	8	0
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.6	14.7	1951	9.5	1951	80	83	66	73	10.3	WNW					6.6	7	7	16	7	1	1	3	0	2	18	0
D	33.5	17.7	25.6	56	1965	-20	1963	1221	1.70	3.06	1957	0.37	1955	1.91	1965	7.7	18.4	1951	8.0	1954	83	83	74	80	10.0	WNW					6.9	7	6	18	9	3	*	3	0	14	26	3
YR	58.8	38.3	48.6	99	JUL. 1965	-20	JAN. 1966+	6830	35.62	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	33.4	22.7	MAR. 1964	10.9	FEB. 1960	79	82	60	64	9.7	WNW					6.2	96	105	164	111	11	41	24	14	53	146	13

ø For period September 1963 through the current year.
Means and extremes in the above table are from the existing location. Annual extremes have been exceeded at other locations as follows:
Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(s) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure.
Below-zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - Esst, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

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AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.2	33.9	34.3	50.4	56.3	73.7	76.6	72.3	69.9	56.5	46.3	34.3	52.8
1932	30.1	31.9	27.9	47.6	61.8	71.4	75.5	73.2	62.6	50.3	34.2	25.4	49.3
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9										
1947				48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
1966	13.4	23.9	37.6	44.1	51.4	69.2	75.4	69.7	62.5	51.4	39.0	24.8	46.9
RECORD MEAN	21.4	24.9	35.3	48.3	59.5	69.2	74.1	72.1	64.2	52.8	38.6	25.7	48.9
MAX	30.1	33.6	44.6	59.4	71.3	80.8	86.1	84.0	76.0	64.1	47.5	33.6	59.3
MIN	12.7	16.2	25.9	37.1	47.7	57.6	62.0	60.2	52.4	41.4	29.7	17.8	38.4

TOTAL DEGREE DAYS

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	13	8	80	488	736	1195	1119	878	960	447	306	40	6270
1931-32	0	8	60	290	567	960	1092	968	1154	528	145	3	5775
1932-33	4	2	129	464	932	1233	974	1204	936	562	170	14	6624
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1363	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632				
1946-47										500	306	75	
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005	1595	1142	844	620	417	45	6983
1966-67	0	7	122	417	773	1238							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.71	0.39	3.09	1.89	3.66	3.57	4.10	2.78	4.54	3.96	5.37	2.32	36.38
1932	1.90	0.41	3.52	1.22	2.23	3.01	2.39	2.51	2.05	5.76	0.79	1.82	27.61
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.82	2.11		
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
1966	1.39	2.04	2.75	4.96	4.76	4.53	1.59	1.50	1.18	2.51	3.53	2.16	32.90
RECORD MEAN	1.80	1.44	2.55	3.27	3.70	4.14	3.69	3.67	3.87	2.69	2.34	1.57	34.73

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	T	2.0	5.0	5.5	1.0	13.0	T	0.0	0.0	26.5
1931-32	0.0	0.0	0.0	0.0	T	9.3	2.0	0.5	21.5	T	0.0	0.0	33.3
1932-33	0.0	0.0	0.0	T	T	3.5	0.5	5.0	12.0	T	0.0	0.0	21.0
1933-34	0.0	0.0	0.0	T	1.0	4.5	T	2.8	0.5	T	0.0	0.0	8.8
1934-35	0.0	0.0	0.0	0.0	T	13.0	5.6	9.7	7.1	T	0.5	0.0	35.9
1935-36	0.0	0.0	0.0	0.0	1.0	6.3	18.5	18.0	1.0	9.0	0.0	0.0	53.8
1936-37	0.0	0.0	0.0	T	2.0	4.5	1.5	4.0	3.3	T	0.0	0.0	15.3
1937-38	0.0	0.0	0.0	T	1.3	3.6	3.0	1.2	4.5	6.0	0.0	0.0	19.6
1938-39	0.0	0.0	0.0	T	0.5	5.5	10.0	7.0	6.5	T	0.0	0.0	29.5
1939-40	0.0	0.0	0.0	T	0.0	T	12.3	12.5	3.0	0.5	1.5	0.0	29.8
1940-41	0.0	0.0	0.0	0.0	4.7	2.0	15.2	4.5	8.0	T	0.0	0.0	34.4
1941-42	0.0	0.0	0.0	0.0	3.0	10.5	14.5	7.5	1.0	0.0	0.0	0.0	36.5
1942-43	0.0	0.0	0.0	0.0	5.0	5.0	32.0	4.0	15.0	T	0.0	0.0	61.0
1943-44	0.0	0.0	0.0	T	3.1	0.3	2.5	21.8	8.4	T	0.0	0.0	36.1
1944-45	0.0	0.0	0.0	0.0	1.3	11.0	12.0	6.0	T	T	T	0.0	30.3
1945-46	0.0	0.0	0.0	0.0	4.0	14.5	4.0	15.5	9.5				
1946-47										1.0	0.0	0.0	
1947-48	0.0	0.0	0.0	0.0	14.8	3.0	7.0	1.2	14.3	T	0.0	0.0	40.3
1948-49	0.0	0.0	0.0	0.0	T	3.8	9.5	8.2	1.5	2.5	0.0	0.0	25.5
1949-50	0.0	0.0	0.0	0.0	2.0	4.0	3.0	8.5	5.5	2.1	0.0	0.0	25.1
1950-51	0.0	0.0	0.0	0.0	5.0	17.8	7.4	5.1	5.0	3.0	0.0	0.0	43.3
1951-52	0.0	0.0	0.0	T	14.7	18.4	9.6	2.8	9.1	0.1	0.0	0.0	54.7
1952-53	0.0	0.0	0.0	0.0	T	3.5	10.9	0.2	5.5	T	0.0	0.0	20.1
1953-54	0.0	0.0	0.0	0.0	4.3	4.5	2.6	4.3	6.1	T	T	0.0	21.8
1954-55	0.0	0.0	0.0	T	2.8	13.3	2.3	2.6	5.0	0.0	0.0	0.0	26.0
1955-56	0.0	0.0	0.0	T	4.1	5.2	1.2	4.7	1.6	T	0.0	0.0	16.8
1956-57	0.0	0.0	0.0	0.0	T	4.0	14.8	1.2	1.0	T	0.0	0.0	21.0
1957-58	0.0	0.0	0.0	0.0	1.3	3.0	9.1	1.6	2.5	T	0.0	0.0	17.5
1958-59	0.0	0.0	0.0	0.0	1.5	11.5	21.4	5.9	13.5	1.1	0.0	0.0	54.9
1959-60	0.0	0.0	0.0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0.0	55.2
1960-61	0.0	0.0	0.0	T	0.6	5.7	1.9	2.5	7.8	4.4	0.0	0.0	22.9
1961-62	0.0	0.0	0.0	T	2.1	8.8	16.0	15.1	7.9	1.1	0.0	0.0	51.0
1962-63	0.0	0.0	0.0	0.1	T	3.7	11.3	8.4	12.2	T	0.0	0.0	35.7
1963-64	0.0	0.0	0.0	0.0	T	8.6	2.0	6.5	22.7	T	0.0	0.0	39.8
1964-65	0.0	0.0	0.0	T	2.8	10.3	10.3	5.0	19.2	T	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.1	5.5	11.0	0.3	1.0	T	1.0	0.0	18.9
1966-67	0.0	0.0	0.0	0.0	T	7.8							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the perlod beginning in 1930 for temperature and 1906 for precipitation.

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table). Data are from Cooperative locations through 1950 and from Airport locations thereafter.

STATION LOCATION

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Pyrheliometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi.NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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WEATHER BUREAU

MAP AND GEOGRAPHY
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LOCAL CLIMATOLOGICAL DATA

WITH COMPARATIVE DATA

1965

ROCKFORD, ILLINOIS

NARRATIVE CLIMATOLOGICAL SUMMARY

Rockford's climate is characterized by hot summers and cold winters.

When winter northeasterly winds blow across Lake Michigan, cloudiness often is increased in the Rockford area, and temperatures are somewhat higher than those westward around the Mississippi River. Conversely, in summer, the cooling effect of Lake Michigan sometimes is felt as far westward as Rockford.

While 34 percent of the average annual precipitation occurs in the three summer months of June to August, and 64 percent in the six months, April to September, no month averages less than 4 percent of the annual total.

Though summers may be described as hot, seldom does oppressive heat prevail for extended periods. In general, the summers are pleasant, and they provide the populace with ample opportunity to enjoy the many recreational features of the area.

Winters are cold. Snow cover is adequate for diversified winter sports, and usually is continuous from late December through February.

Based on the period 1906 through 1963, the average number of days between the last temperature of 32° or below in the spring and the first in the fall is 157. The average date of the last 32° temperature in the spring is April 30, and the first in the fall is October 4. The latest freezing temperature recorded during these years was May 26, 1925, and the earliest was September 14, 1923.

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UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

LATITUDE 42° 12' N
LONGITUDE 89° 06' W
ELEVATION (ground) 724 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT
1965

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST	Wind –&: Resultant: Direction	Speed	Fastest mile: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90 and above	32 and below	Minimum: 32 and below	0 and below
JAN †	28.5	10.4	19.5	55	8	-15	30	1405	4.40	2.07	22	10.3	†3.6	31-1†	80	80	70	75	29	3.2	25	31	26+		6.0	10	5	16	12	6	0	3	0	18	29	8
FEB	30.7	13.5	22.1	55	28	-16	2	1194	0.83	0.28	11-12	5.0	3.1	23-24	73	72	62	70	27	5.2	30	25	10		5.4	11	5	12	10	2	0	2	0	14	27	5
MAR	32.8	19.0	25.9	52	1	2	27	1204	2.30	0.75	1-2	19.2	5.0	4	80	80	67	72	32	3.0	36	11	17		7.4	4	9	18	14	7	1	2	0	12	29	0
APR	54.8	36.3	45.6	73	30	29	3	579	4.62	1.11	24	T	T	2	83	86	65	67	07	2.5	40	24	11		7.1	5	10	15	14	0	5	3	0	0	7	0
MAY	73.5	50.3	61.9	86	24	33	29	145	5.66	2.16	4-5	0.0	0.0		74	80	57	59	21	5.2	25	26	27+		6.5	3	16	12	11	0	10	0	0	0	0	0
JUN	80.0	55.8	67.9	94	27	46	13	26	2.56	1.46	5	0.0	0.0		70	76	50	50	13	2.0	32	24	5		5.3	10	12	8	6	0	3	0	3	0	0	0
JUL	84.9	60.9	72.9	99	23	47	6	1	3.81	2.60	30-31	0.0	0.0		76	81	49	50	24	2.6	23	33	26+		4.9	8	17	6	6	0	6	2	3	0	0	0
AUG	78.8	60.6	69.7	92	5	43	29	30	9.27	2.20	26	0.0	0.0		85	88	63	68	23	2.0	48	26	26		5.6	9	10	12	14	0	10	1	3	0	0	0
SEP †	70.7	53.6	62.2	87	9	39	25	134	8.23	2.57	20-21	0.0	0.0		87	89	70	75	19	3.0	†23	†28	19+		7.3	5	7	18	14	0	11	0	0	0	0	0
OCT	62.5	42.2	52.4	79	18+	26	29	392	2.91	0.97	19-20	0.0	0.0		77	81	57	67	26	3.9	24	31	31		4.6	16	3	12	9	0	3	0	0	0	2	0
NOV	48.2	30.9	39.6	70	3	16	30+	758	1.83	0.92	26	0.1	0.1	18	78	80	68	73	25	4.2	31	27	26		6.6	8	5	17	6	0	1	7	0	3	18	0
DEC	39.7	24.9	32.3	56	31	0	27	1005	3.03	1.91	23-24	5.5	4.0	24-25	83	83	73	79	24	3.9	22	36	25+		7.2	7	5	19	8	1	0	3	0	8	24	1
YEAR	57.1	38.2	47.7	99	JUL. 23	-16	FEB. 2	6873	49.45	2.60	JUL. 30-31	40.1	5.0	MAR. 4	79	81	63	67	25	2.2	48	26	AUG. 26		6.2	96	104	165	124	16	50	23	9	55	136	14

† DATA CORRECTED AFTER PUBLICATION OF THE MONTHLY ISSUE.

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes ø: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST	Wind: Mean hourly speed	Prevailing direction	Fastest mile: Speed	Direction	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32 and below	Min.: 32 and below	0° and below
(a)	(b)	(b)	(b)	2		2		(b)	(b)	15		15		15		15	15		15		2	2	2	2	14	13					15	15	15	15	15	15	15	15	2	2	2	2
J	30.2	13.7	22.0	55	1965+	-15	1965	1333	1.98	4.66	1960	0.18	1961	2.89	1960	8.7	21.4	1959	7.7	1962+	79	79	68	74	9.4	WNW					6.8	7	7	17	9	3	*	3	0	15	29	5
F	32.7	16.1	24.4	55	1965	-16	1965	1137	1.44	2.24	1959	0.26	1952	1.17	1957	5.7	19.5	1960	10.9	1960	76	76	61	69	10.1	WNW					6.5	7	6	15	8	2	*	3	0	14	28	3
M	42.9	25.1	34.0	59	1964	2	1965	961	2.46	5.62	1961	0.52	1958	1.70	1959	8.6	22.7	1964	7.6	1961	81	81	66	70	11.3	ENE					6.8	6	9	16	12	3	2	2	0	8	29	0
A	58.7	36.9	47.8	83	1964	22	1964	516	3.05	8.17	1964	1.90	1958	3.03	1963	0.6	4.4	1961	4.4	1961	79	83	62	64	11.6	WNW					6.6	7	8	15	12	*	4	1	0	0	7	0
M	70.5	47.7	59.1	87	1964	33	1965	236	3.83	5.66	1965	1.44	1961	2.17	1960	T	T	1960+	T	1960+	76	82	56	56	10.8	ENE					6.3	8	9	14	11	0	6	1	0	0	0	0
J	80.9	58.4	69.7	94	1965	42	1964	60	4.30	6.51	1964	1.45	1957	3.22	1952	0.0	0.0		0.0		76	81	53	55	9.1	SSW					6.0	7	11	12	10	0	7	1	4	0	0	0
J	86.3	62.1	74.2	99	1965	47	1965	6	4.14	11.81	1952	2.37	1953	5.03	1952	0.0	0.0		0.0		82	85	57	57	7.9	SSW					5.5	9	13	9	10	0	8	1	4	0	0	0
A	84.2	60.8	72.5	93	1964	43	1965+	9	4.14	9.27	1965	1.12	1961	2.20	1965	0.0	0.0		0.0		86	90	60	64	7.8	SSW					5.6	8	12	11	9	0	6	2	3	0	0	0
S	75.6	52.0	63.8	90	1964	33	1964	114	3.51	10.68	1961	0.50	1956	5.56	1961	0.0	0.0		0.0		86	88	63	69	8.7	SSW					5.3	10	10	10	9	0	5	1	1	0	0	0
O	64.1	40.9	52.5	90	1963	24	1964	400	2.70	7.92	1954	0.01	1952	5.22	1954	0.1	1.1	1959	1.1	1959	76	82	52	61	8.9	SSW					5.2	12	8	11	8	*	2	2	0	0	8	0
N	46.1	28.0	37.1	74	1964	3	1964	837	2.37	4.83	1961	0.51	1953	3.20	1961	2.7	14.7	1951	9.5	1951	80	83	66	74	10.2	WNW					6.6	7	7	16	7	1	1	3	0	3	17	0
D	33.5	17.7	25.6	56	1965	-20	1963	1221	1.70	3.06	1957	0.37	1955	1.91	1965	7.7	18.4	1951	8.0	1954	83	83	74	80	10.0	WNW					6.9	7	6	18	9	3	*	3	0	14	26	2
YR	58.8	38.3	48.6	99	JUL. 1965	-20	DEC. 1963	6830	35.62	11.81	JUL. 1952	0.01	OCT. 1952	5.56	SEP. 1961	34.1	22.7	MAR. 1964	10.9	FEB. 1960	80	83	61	66	9.6	WNW					6.2	95	106	164	113	12	41	24	12	53	143	10

ø For period September 1963 through the current year.

Means and extremes in the above table are from the existing location. Annual extremes have been exceeded at other locations as follows: Highest temperature 112 in July 1936; lowest temperature -25 in January 1924, and February 1933; maximum monthly snowfall 36.1 in January 1918.

(a) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure. Below-zero temperatures are preceded by a minus sign.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Monthly heating degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i. e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1 - minute values.

551.5
Ill3aroc
1965

AVERAGE TEMPERATURE

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.
1926	23.8	29.7	29.2	43.4	61.4	64.6	72.4	73.6	63.2	49.7	33.9	22.8	47.3
1927	20.5	32.0	40.5	48.1	56.5	65.7	72.7	68.3	68.0	56.0	41.7	24.2	49.5
1928	25.3	29.6	37.6	45.8	61.9	65.4	74.7	73.8	60.9	54.5	40.9	29.7	50.0
1929	12.8	17.1	41.6	51.6	57.2	66.9	74.9	70.4	63.0	50.5	34.3	26.8	47.2
1930	15.0	34.7	36.5	50.8	61.4	69.6	75.3	73.8	66.3	50.2	40.8	26.7	50.1
1931	29.2	33.9	34.3	50.4	56.3	73.7	76.6	72.3	69.9	56.5	46.3	34.3	52.8
1932	30.1	31.9	27.9	47.6	61.8	71.4	75.5	73.2	62.6	50.3	34.2	25.4	49.3
1933	33.9	22.3	35.1	46.5	61.2	77.5	75.2	70.6	69.1	50.6	37.4	27.9	50.6
1934	30.1	22.8	33.7	49.9	68.0	77.0	78.2	72.4	63.1	56.0	44.1	23.0	51.5
1935	21.5	27.3	40.5	47.1	54.3	65.1	78.3	73.3	64.5	53.0	36.5	22.6	48.7
1936	14.5	10.2	39.0	44.8	66.3	67.2	80.1	76.4	66.3	50.6	36.3	29.9	48.5
1937	21.6	23.7	33.2	46.7	60.6	68.7	75.9	77.0	63.6	49.5	35.3	23.6	48.3
1938	22.7	32.4	44.1	50.4	60.4	68.2	74.5	74.7	64.3	56.6	40.6	27.0	51.3
1939	28.9	23.5	37.2	45.9	64.7	71.5	75.4	72.1	69.2	53.1	39.3	33.2	51.2
1940	12.8	26.8	31.0	47.1	57.1	70.4	75.5	71.7	63.7	55.3	35.5	29.5	48.1
1941	24.7	23.3	31.7	54.6	64.6	70.0	75.0	73.1	67.1	54.8	42.3	34.0	51.3
1942	22.1	24.5	40.3	54.9	59.6	70.0	74.5	71.4	61.9	53.3	41.5	21.6	49.6
1943	20.7	26.6	32.5	48.5	58.0	72.6	75.2	73.2	60.7	51.9	34.8	27.2	48.5
1944	30.2	28.0	31.6	45.3	64.9	72.1	73.0	73.2	66.0	53.1	42.7	21.4	50.2
1945	17.8	27.3	48.2	49.8	54.1	65.4	71.8	72.5	63.8	51.6	38.9	20.3	48.5
1946	25.4	26.7	44.9	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	48.6	55.7	67.1	71.7	80.6	67.5	62.1	33.1	29.0	-
1948	17.9	24.8	35.5	54.7	57.1	68.7	75.7	73.6	68.1	51.3	42.5	28.4	49.9
1949	24.6	25.1	36.8	49.1	62.8	73.9	76.9	73.7	59.4	57.1	40.2	29.7	50.8
1950	26.7	24.9	31.1	42.4	61.4	69.1	71.1	69.2	62.5	57.8	34.4	18.0	47.4
1951	18.0	23.2	31.8	45.4	61.4	65.6	71.6	68.7	60.4	52.5	30.1	21.9	45.9
1952	22.8	30.4	32.2	50.3	58.9	72.7	75.2	70.6	63.5	45.8	40.2	29.2	49.3
1953	24.4	28.5	35.7	44.9	59.7	72.1	74.7	73.5	63.7	56.1	41.1	27.6	50.2
1954	22.2	33.9	32.3	50.9	54.6	73.1	73.7	70.9	65.8	52.0	38.6	27.2	49.6
1955	20.9	23.4	33.5	54.6	61.8	66.4	79.5	76.3	65.0	52.5	32.9	21.7	49.0
1956	24.2	26.0	33.7	45.4	58.9	73.4	71.8	72.0	62.1	57.8	37.4	28.3	49.3
1957	14.6	30.1	35.1	49.1	57.7	69.7	75.4	71.7	61.2	48.9	37.5	31.1	48.5
1958	20.5	16.4	35.0	48.6	60.9	63.7	70.9	72.6	63.4	54.9	40.0	18.7	47.1
1959	13.3	21.4	34.4	47.7	64.2	70.4	72.2	75.8	65.8	48.7	29.3	32.6	48.0
1960	24.1	22.3	22.5	50.8	57.2	67.1	71.4	72.7	66.4	51.8	39.8	21.9	47.3
1961	19.5	31.5	37.4	43.0	56.3	68.9	72.3	72.4	65.1	53.0	38.3	22.8	48.4
1962	14.5	21.4	31.4	47.7	64.4	69.0	69.5	71.7	60.5	54.6	38.8	22.1	47.1
1963	9.3	16.3	38.4	50.7	57.6	71.1	73.8	69.8	64.0	62.0	43.2	13.2	47.4
1964	26.7	25.7	32.3	48.5	62.6	68.6	72.8	66.9	62.7	48.1	41.1	22.9	48.3
1965	19.5	22.1	25.9	45.6	61.9	67.9	72.9	69.7	62.2	52.4	39.6	32.3	47.7
RECORD MEAN													
TEMP	21.6	25.0	35.2	48.4	59.7	69.2	74.1	72.2	64.3	52.8	38.6	25.7	48.9
MAX	30.2	33.6	44.5	59.5	71.5	80.8	86.1	84.0	76.1	64.1	47.5	33.6	59.3
MIN	12.9	16.3	25.9	37.2	47.8	57.6	62.0	60.3	52.5	41.4	29.7	17.8	38.5

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1926	1.01	2.58	1.71	1.74	2.31	10.64	6.90	2.97	5.61	2.91	4.09	0.83	43.30
1927	1.09	0.84	1.55	7.12	4.78	1.88	0.74	1.20	7.59	3.91	2.28	1.81	34.79
1928	0.46	0.81	2.49	3.39	1.22	6.50	2.35	4.58	1.53	4.13	5.83	1.82	35.11
1929	3.30	0.68	1.93	6.20	2.70	5.00	2.77	1.60	4.97	3.39	1.17	0.58	34.29
1930	2.02	1.20	1.86	3.19	2.41	4.31	2.70	1.08	4.61	3.40	1.22	0.53	28.53
1931	0.71	0.39	3.09	1.89	3.66	3.57	4.10	2.78	4.54	3.96	5.37	2.32	36.38
1932	1.90	0.41	3.52	1.22	2.23	3.01	2.39	2.51	2.05	5.76	0.79	1.82	27.61
1933	1.33	0.75	2.98	2.09	8.88	2.34	6.30	1.38	3.06	1.44	0.48	0.56	31.59
1934	0.79	0.34	0.85	1.60	0.68	2.49	3.40	2.54	4.46	1.19	7.88	1.39	27.61
1935	2.52	1.90	2.09	2.21	5.95	6.77	6.33	6.23	2.69	1.66	4.39	0.95	43.69
1936	1.72	1.97	0.43	1.75	1.06	3.82	0.66	10.73	7.86	3.74	1.06	3.91	38.71
1937	3.27	1.51	1.30	4.02	3.25	6.40	0.05	3.71	2.51	2.52	1.05	1.02	30.61
1938	3.57	1.72	3.80	1.71	4.36	5.89	5.40	5.54	7.56	0.79	2.08	1.41	43.83
1939	2.17	1.88	1.26	2.83	4.06	3.32	2.29	2.37	1.65	3.43	0.56	0.33	26.15
1940	1.84	1.88	1.52	3.65	4.04	9.47	4.56	7.95	0.37	3.13	2.23	1.64	42.28
1941	3.71	1.20	2.41	2.75	4.11	6.08	3.23	3.33	10.26	5.46	2.04	2.02	46.60
1942	1.29	0.70	1.63	1.06	4.68	4.38	4.00	7.88	6.04	2.53	3.25	3.35	40.79
1943	4.40	1.01	4.95	4.22	5.72	2.80	5.00	6.88	1.61	1.45	2.35	0.59	40.98
1944	1.78	3.32	6.20	4.00	5.20	4.74	3.79	5.60	2.62	0.88	2.89	1.49	42.51
1945	0.97	2.25	1.87	4.33	7.67	5.60	2.16	3.41	8.58	0.95	3.27	2.53	43.59
1946	5.80	2.05	2.98	0.91	3.19	4.98	0.35	2.30	1.82	3.92	2.11	-	-
1947	2.00	0.25	1.75	3.42	3.74	4.08	3.68	2.03	2.78	1.72	2.78	1.11	29.34
1948	1.56	1.77	4.04	1.66	4.78	1.63	2.58	1.36	1.83	1.40	2.54	1.19	26.34
1949	2.66	2.20	2.45	2.62	1.53	5.29	3.93	1.31	2.25	1.88	0.62	1.86	28.60
1950	1.93	1.82	1.77	4.71	1.29	5.67	6.19	5.18	5.85	0.69	0.89	2.69	38.68
1951	1.00	1.90	1.56	3.45	3.76	2.93	7.41	4.92	2.99	4.26	4.14	1.80	40.12
1952	1.24	0.26	3.66	2.49	3.20	4.78	11.81	3.06	0.94	0.01	3.27	1.57	36.29
1953	1.09	1.78	2.07	2.91	2.91	6.07	2.37	1.65	2.68	1.60	0.51	2.81	28.45
1954	0.43	1.50	2.19	5.11	3.27	4.72	3.61	4.90	2.92	7.92	1.51	2.37	40.45
1955	1.13	1.40	2.93	2.99	2.76	3.46	2.71	3.75	2.62	3.61	0.80	0.37	28.53
1956	0.42	1.18	1.02	4.80	5.20	1.58	4.95	4.26	0.50	0.48	2.07	0.97	27.43
1957	1.40	1.61	1.89	4.17	4.23	1.45	4.39	4.55	0.63	1.64	3.59	3.06	32.61
1958	0.55	0.28	0.52	1.90	2.24	3.41	5.31	2.51	2.40	2.24	2.18	0.75	24.29
1959	1.51	2.24	4.94	5.13	2.61	4.00	7.56	4.74	4.73	5.56	2.18	2.77	47.97
1960	4.66	1.76	2.23	5.84	4.66	4.22	3.79	4.94	4.56	5.13	2.08	0.64	44.51
1961	0.18	1.06	5.62	2.87	1.44	1.65	3.92	1.12	10.68	6.05	4.83	0.97	40.39
1962	2.36	1.49	3.17	2.42	4.23	1.88	5.56	2.57	1.73	0.95	0.84	0.50	27.70
1963	0.60	0.38	2.94	5.51	1.89	4.27	5.16	1.84	3.95	1.04	2.34	0.79	30.71
1964	0.97	0.50	3.64	8.17	3.41	6.51	5.20	1.99	3.32	0.11	4.51	0.91	39.24
1965	4.40	0.83	2.30	4.62	5.66	2.56	3.81	9.27	8.23	2.91	1.83	3.03	49.45
RECORD MEAN	1.81	1.43	2.55	3.24	3.68	4.13	3.73	3.71	3.91	2.70	2.32	1.56	34.77

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1906 for precipitation.

TOTAL HEATING DEGREE DAYS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1925-26	4	2	56	727	880	1399	1248	996	1115	660	166	72	7361
1926-27	8	2	142	494	942	1318	1386	929	767	518	291	88	6885
1927-28	2	16	125	298	708	1272	1240	1035	858	584	134	68	6340
1928-29	1	2	190	361	732	1103	1625	1347	736	442	306	64	6909
1929-30	1	18	142	460	929	1189	1557	856	891	453	182	27	6705
1930-31	13	8	80	488	736	1195	1119	878	960	447	306	40	6270
1931-32	0	8	60	290	567	960	1092	968	1154	528	145	3	5775
1932-33	4	2	129	464	932	1233	974	1204	936	562	170	14	6624
1933-34	0	6	59	456	840	1160	1091	1189	980	461	90	4	6336
1934-35	0	36	119	291	633	1309	1357	1064	767	552	341	83	6552
1935-36	0	31	118	386	865	1321	1575	1595	817	620	93	46	7467
1936-37	0	1	101	454	869	1096	1353	1165	993	559	191	40	6822
1937-38	0	0	157	508	901	1290	1320	920	659	452	193	20	6420
1938-39	0	1	100	284	743	1188	1128	1169	872	594	128	28	6235
1939-40	0	3	76	399	780	994	1625	1117	1063	545	271	15	6888
1940-41	8	25	134	314	893	1110	1257	1175	1039	335	118	39	6447
1941-42	0	4	75	339	692	967	1336	1142	774	338	227	39	5933
1942-43	4	17	211	374	714	1354	1382	1079	1014	505	264	42	6960
1943-44	1	8	191	419	915	1180	1090	1080	1043	600	129	31	6687
1944-45	4	9	76	382	678	1360	1470	1062	527	469	354	107	6498
1945-46	14	12	141	425	791	1392	1194	1076	632	-	-	-	-
1946-47	-	-	-	-	-	-	-	-	-	500	306	75	-
1947-48	14	1	133	153	969	1123	1468	1173	922	341	264	31	6592
1948-49	1	4	56	434	686	1143	1261	1123	883	483	151	8	6233
1949-50	0	1	190	285	751	1103	1196	1130	1026	641	162	33	6518
1950-51	6	9	94	243	914	1452	1449	1169	1021	589	162	53	7161
1951-52	5	10	159	406	1043	1328	1298	998	1011	449	220	13	6940
1952-53	0	10	116	591	740	1102	1254	1013	900	596	211	10	6543
1953-54	0	0	123	294	711	1154	1318	863	1008	416	327	45	6259
1954-55	0	4	74	418	783	1167	1360	1158	968	308	145	61	6446
1955-56	0	2	83	385	954	1339	1258	1120	962	584	242	29	6958
1956-57	0	13	123	224	820	1129	1556	973	922	480	245	28	6513
1957-58	0	5	155	493	820	1044	1374	1358	924	487	158	80	6898
1958-59	3	20	102	314	741	1428	1598	1215	941	511	133	18	7024
1959-60	6	0	95	497	1066	998	1262	1235	1313	435	244	33	7184
1960-61	4	3	89	406	751	1331	1403	934	849	654	288	30	6742
1961-62	9	3	133	372	796	1300	1559	1213	1038	527	134	34	7118
1962-63	14	1	179	339	778	1325	1725	1357	819	425	246	34	7242
1963-64	2	17	95	127	647	1605	1181	1133	1008	489	122	56	6482
1964-65	9	51	145	519	713	1298	1405	1194	1204	579	145	26	7288
1965-66	1	30	134	392	758	1005							

TOTAL SNOWFALL

Seaaon	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1925-26	0	0	0	2.2	7.0	9.0	10.5	6.0	19.0	4.0	0	0	57.7
1926-27	0	0	0	T	8.2	2.3	10.5	3.5	1.0	1.0	0	0	26.5
1927-28	0	0	0	0	T	2.0	T	2.0	6.7	2.5	T	0	13.2
1928-29	0	0	T	0	1.0	1.5	12.0	6.0	1.0	T	0	0	21.5
1929-30	0	0	0	5.0	1.5	5.2	18.5	3.0	2.0	0	0	0	35.2
1930-31	0	0	0	T	2.0	5.0	5.5	1.0	13.0	T	0	0	26.5
1931-32	0	0	0	0	T	9.3	2.0	0.5	21.5	T	0	0	33.3
1932-33	0	0	0	T	T	3.5	0.5	5.0	12.0	T	0	0	21.0
1933-34	0	0	0	T	1.0	4.5	T	2.8	0.5	T	0	0	8.8
1934-35	0	0	0	0	T	13.0	5.6	9.7	7.1	T	0.5	0	35.9
1935-36	0	0	0	0	1.0	6.3	18.5	18.0	1.0	9.0	0	0	53.8
1936-37	0	0	0	T	2.0	4.5	1.5	4.0	3.3	T	0	0	15.3
1937-38	0	0	0	T	1.3	3.6	3.0	1.2	4.5	6.0	0	0	19.6
1938-39	0	0	0	T	0.5	5.5	10.0	7.0	6.5	T	0	0	29.5
1939-40	0	0	0	T	0	T	12.3	12.5	3.0	0.5	1.5	0	29.8
1940-41	0	0	0	0	4.7	2.0	15.2	4.5	8.0	T	0	0	34.4
1941-42	0	0	0	0	3.0	10.5	14.5	7.5	1.0	0	0	0	36.5
1942-43	0	0	0	0	5.0	5.0	32.0	4.0	15.0	T	0	0	61.0
1943-44	0	0	0	T	3.1	0.3	2.5	21.8	8.4	T	0	0	36.1
1944-45	0	0	0	0	1.3	11.0	12.0	6.0	T	T	T	0	30.3
1945-46	0	0	0	0	4.0	14.5	4.0	15.5	9.5	-	-	-	-
1946-47	-	-	-	-	-	-	-	-	-	1.0	0	0	-
1947-48	0	0	0	0	14.8	3.0	7.0	1.2	14.3	T	0	0	40.3
1948-49	0	0	0	0	T	3.8	9.5	8.2	1.5	2.5	0	0	25.5
1949-50	0	0	0	0	2.0	4.0	3.0	8.5	5.5	2.1	0	0	25.1
1950-51	0	0	0	0	5.0	17.8	7.4	5.1	5.0	3.0	0	0	43.3
1951-52	0	0	0	T	14.7	18.4	9.6	2.8	9.1	0.1	0	0	54.7
1952-53	0	0	0	0	T	3.5	10.9	0.2	5.5	T	0	0	20.1
1953-54	0	0	0	0	4.3	4.5	2.6	4.3	6.1	T	T	0	21.8
1954-55	0	0	0	T	2.8	13.3	2.3	2.6	5.0	0	0	0	26.0
1955-56	0	0	0	T	4.1	5.2	1.2	4.7	1.6	T	0	0	16.8
1956-57	0	0	0	0	T	4.0	14.8	1.2	1.0	T	0	0	21.0
1957-58	0	0	0	0	1.3	3.0	9.1	1.6	2.5	T	0	0	17.5
1958-59	0	0	0	0	1.5	11.5	21.4	5.9	13.5	1.1	0	0	54.9
1959-60	0	0	0	1.1	6.9	8.9	9.1	19.5	9.7	T	T	0	55.2
1960-61	0	0	0	T	0.6	5.7	1.9	2.5	7.8	4.4	0	0	22.9
1961-62	0	0	0	T	2.1	8.8	16.0	15.1	7.9	1.1	0	0	51.0
1962-63	0	0	0	0	0.1	T	3.7	11.3	8.4	12.2	T	0	0	35.7
1963-64	0	0	0	0	T	8.6	2.0	6.5	22.7	T	0	0	39.8
1964-65	0	0	0	T	2.8	10.3	10.3	5.0	19.2	T	0	0	47.6
1965-66	0	0	0	0	0.1	5.5							

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table). Data are from Cooperative locations through 1950 and from Airport locations thereafter.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

STATION LOCATION

ROCKFORD, ILLINOIS
GREATER ROCKFORD AIRPORT

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Pyrheliometer	Remarks
COOPERATIVE																
900 Block, N. Main	12- ?-72	10- ?-93		42° 17'	89° 05'	720							3			Observer; T. D. Robertson.
731 N. Court Street	11- ?-93	12- ?-12	1/4 mi. WSW	42° 17'	89° 05'	720							3			Observer; H. C. Porter.
1135 N. Court Street	1- ?-13	6- 1-18	1/2 mi. NE	42° 17'	89° 05'	720		5					3			Observer; Dr. John R. Porter.
731 N. Court Street	6- 2-18	7-29-20	1/2 mi. SW	42° 17'	89° 05'	720		5					3			Observer; Carson H. Porter.
324 Churchill Street	7-30-20	9-23-53	3/4 mi. NE	42° 17'	89° 05'	720		5					3			Observer; F. W. Knowlton and Daughter.
2221 N. Winnebago	9-24-53	6-30-57	1-1/8 mi. NW	42° 18'	89° 06'	740		5					3			New residence.
AIRPORT STATION																
Greater Rockford Airport Fed. Facilities Bldg. 4.7 mi. S of P. O.	12-19-50	11- 4-58		42° 12'	89° 06'	728	33	5	5				3			Observations by CAA Personnel.
Greater Rockford Airport Fed. Facilities Bldg.	11- 5-58	Present	35 ft. E	42° 12'	89° 06'	#724	a 20	6	5			b6	c4	d4		First-Order Weather Bur. Station. #-728 to 11-19-62 and 727 to 8-22-63. a - 33 to 12-6-62. b - 5 to 11-6-62. c - 3 to 11-6-62. d - Commissioned 8-22-63 1850 feet SSE of instrument shelter.

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